Author Index Volume 63, 2004

A

Abd-El-Aziz, Alaa S.
Synthesis of Hydroxyquinoline Derivatives, Aminohydroxychromene, Aminocoumarin and Their Antibacterial Activities. 1793

Abd El-Razek, Mohamed H.
Two Sesquiterpene-Coumarins from the Roots of *Ferula marmarica*. 2101

Abe, Noritaka.
Some Reactions of 3-Phenyl-8-triphenylphosphoimino-1-azaazulene. 809

Abe, Noritaka.
Synthesis of 2-Chloro-8-(2-pyridyl)-1-azaazulene and Its Metal Complexes. 2341

Achiwa, Kazuo.
Enantioselective Hydrogenation of 3,4-Dihydro-β-carbolines Catalyzed by Ir Complexes of Diphosphine. 2097

Adachi, Chihaya.
Synthesis and Characterization of Hexakis(4-pyridylethynyl)benzene and Hexakis(5-pyrimidylethynyl)benzene. 1537

Adam, Arnold E. W.
Chemistry of Polyhalogenated Nitrobutadienes, 1: A New Synthesis of Perfunctionalized 3-Amino-4-nitrothiophenes. 1281

Afza, Nighat.
Iridoid Galactosids and a Benzofuran Type Sesquiterpene from *Buddleja crispa*. 1875

Ahmad, Habib.
Lipoxygenase Inhibiting Flavonoids from *Indigofera hetrantha*. 359

Ahmad, Ijaz.
Iridoid Galactosids and a Benzofuran Type Sesquiterpene from *Buddleja crispa*. 1875

Ahn, Jin Hee.
Formation of Unnatural Cyclic Amino Acid Equivalent from the Simple Cyclic Hydrazine. 2379

Aimi, Norio.
Density Functional Theory Study of the Preferred Conformation of Geissoschizine. 663

Akamatsu, Kensuke.
$SnCl_4$-Promoted Ethenylation Reaction of Hydroxylated Heteroarenes. 1839

Akao, Yukihiro.
A New Resveratrol Hexamer from *Upuna borneensis*. 129

Akué-Gédu, Rufine.
Allylic Dehydration, Retro-Pinacol, Pinacol-like and Enamide Reactions: Synthesis of New Isoquinolines. 1855

Akula, Rakesh A.
Rapid Access to Glucopyranosyl-1,2,3-triazoles *via* Cu(I)-Catalyzed Reactions in Water. 2719

Alekperov, Dzhamil.
Dendritic Cyclotriphosphazene Derivative with Hexaxis-(alkylazobenzene) Substitution as Photo-sensitive Trigger. 1563

Ali, Zulfiqar.
A New Resveratrol Hexamer from *Upuna borneensis*. 129

Alvarez, Elida E.
Kinetics of the Thermal Decomposition of Substituted Cyclic Organic Peroxides in Toluene Solution: Substituent Effects on the Reaction Rates and the Activation Parameters of the Unimolecular Reactions. 2231

Amari, Mohamed.
Synthesis and Reactivity of a New Pyranoquinoxaline. 1409

Amemiya, Ryo.
$SnCl_4$-Promoted Ethenylation Reaction of Hydroxylated Heteroarenes. 1839

An, Duk Keun.
Formation of Unnatural Cyclic Amino Acid Equivalent from the Simple Cyclic Hydrazine. 2379

Ando, Toshio.
Acylated Peonidin 3-Rutinoside-5-glucosides from Commercial Petunia Cultivars with Pink Flowers. 509

André, Chantal.
Synthesis and Reactivity of a New Pyranoquinoxaline. 1409

Ángeles, Deyanira.
An Efficient Synthesis of 6,6-Dimethyl-2-(4-nitrophenyl)-1-(R-phenyl)-4,5,6,7-tetrahydro-1*H*-4-indolones Using a Solid Sulfated Zirconia as Catalyst. 367

Anis, Itrat.
Iridoid Galactosids and a Benzofuran Type Sesquiterpene from *Buddleja crispa*. 1875

Antonioletti, Roberto.
Iodoenolcyclization of 2-Allyl Substituted β-Keto Esters under Thermodynamic Conditions. 1573

Aoyagi, Yutaka.

New Cytotoxic Norditerpene Dilactones from Leaves of *Podocarpus macrophyllus* var. *maki*. 347

Aoyama, Hiromu.

Chemiluminescent Autoxidation of α-Silyl Carbanions Derived from 9-Silyl-10-methylacridanes. 1667

Aoyama, Toyohiko.

A Study of Structure and Dynamics of Prochiral N-C Axis for Asymmetric Transition Metal Catalysis, with Phosphorous-31 (V) by 3D NMR Spectroscopy Combined with MO Calculation. 1345

Apan, Teresa Ramirez.

Synthesis of 3-Ferrocenyl-3,3a,4,5-tetrahydro-2*H*-benzo[*g*]-indazoles. 1045

Aprile, Carmela.

Diastereoselective Synthesis of Substituted 2-Phenyltetrahydropyrans as Useful Precursors of Aryl *C*-Glycosides *via* Selenoetherification. 681

Ardakani, F.

A Simple and Efficient Synthesis of New 6-Arylimino-6*H*-indolo[2,1-*b*]quinazolin-12-ones under Microwave Irradiation. 791

Ariffin, Juriffah.

Density Functional Theory Study of the Preferred Conformation of Geissoschizine. 663

Ariga, Masahiro.

Reaction of 3,5-Dicyanoisoxazoles with Nucleophiles. 1659

Artis, Nicole D.

Rapid Access to Glucopyranosyl-1,2,3-triazoles *via* Cu(I)-Catalyzed Reactions in Water. 2719

Asaka, Toshifumi.

Conformational Analysis of Tricyclic Ketolide TE-802 and Its Analogues. 2057

Asaoka, Morio.

Formation of 3-Pyrrolin-2-ones *via* 5-*Endo*-*trig* Cyclization. 1009

Ata, Athar.

Synthesis of Hydroxyquinoline Derivatives, Aminohydroxychromene, Aminocoumarin and Their Antibacterial Activities. 1793

Azarifar, Davood.

A Convenient Method for the Preparation of Some New Derivatives of 1,3,5-*s*-Triazine under Solvent Free Condition. 1897

Azhar-ul-Haq.

Iridoid Galactosids and a Benzofuran Type Sesquiterpene from *Buddleja crispa*. 1875

Azizian, Javad.

A Simple and Efficient Synthesis of New 6-Arylimino-6*H*-indolo[2,1-*b*]quinazolin-12-ones under Microwave Irradiation. 791

Azizian, Javad.

$KAl(SO_4)_2{\cdot}12H_2O$: An Efficient Catalyst for the Stereoselective Synthesis of *cis*-Isoquinolonic Acids. 2013

Azizian, Javad.

Three Component Synthesis of Some γ-Spiroiminolactones under Microwave-assisted Solvent-free Conditions. 2225

Aziz-ur-Rehman.

Lipoxygenase Inhibiting Flavonoids from *Indigofera hetrantha*. 359

Azzena, Ugo.

Alkali Metal-mediated Synthesis of 1- and 4-Substituted *N*-Alkyl-1,2,3,4-tetrahydroisoquinolines. 401

B

Bachowska, Barbara.

Rotaxanes Containing Quaternary Azaaromatic Moieties. 2131

Bai, Hong.

A New Prenylated Flavone from the Leaves of *Glycyrrhiza uralensis* Cultivated in China. 2091

Bai, Yinjuan.

Green Chemistry Approaches to the Synthesis of 5-Arylidenethiobarbituric Acids by a Condensation Reactions between Aromatic Aldehydes and Thiobarbituric Acid: Comparison of Water, Microwave Irradiation, and Grinding. 583

Baik, Woonphil.

Indium-mediated Reductive Intermolecular Coupling Reaction of 2-Nitroaniline with Aromatic Aldehydes to Benzimidazoles. 41

Bandyopadhyay, Debasish.

Effect of Sodium Naphthalenide, a Key Set Reagent, on 3-Substituted Indoles. 2371

Banerji, Avijit.

Effect of Sodium Naphthalenide, a Key Set Reagent, on 3-Substituted Indoles. 2371

Banik, Bimal K.

Facile Synthesis of Biologically Active Heterocycles by Indium-induced Reactions of Aromatic Nitro Compounds in Aqueous Ethanol. 283

Banik, Indrani.

Facile Synthesis of Biologically Active Heterocycles by Indium-induced Reactions of Aromatic Nitro Compounds in

Aqueous Ethanol. 283

Baranac, Marija.

Sequential Bromination-Rearrangement of Push-Pull Thiazolidines Induced by Pyridinium Hydrobromide Perbromide under Homogenous Reaction Conditions. 851

Barba, Fructuoso.

Synthesis of 1,2,3-Triazoles. 1175

Barbieru, Roxana.

On the Synthesis and Characterization of 3-Arylamino-7-nitro-2*H*-1,4-benzoxazines. 249

Barreca, Maria Letizia.

Synthesis of New Potential HIV-1 Integrase Inhibitors. 2727

Barry 3rd, Clifton E.

Synthesis and Spectroscopic Differentiation of 2- and 4-Alkoxythiotetronic Acids. 519

Basak, Bidyut.

Effect of Sodium Naphthalenide, a Key Set Reagent, on 3-Substituted Indoles. 2371

Basu, Pradipta K.

Formation of Five- and Six-membered Heterocyclic Rings by Radical Cyclization. 1903

Batanero, Belen.

Synthesis of 1,2,3-Triazoles. 1175

Batinac, Sanja.

Synthesis of the Novel Bicyclic Oxepinopyrimidine and Fluorinated Pyrrolidinopyrimidines. 2523

Bedair, Ahmed H.

Synthesis of Hydroxyquinoline Derivatives, Aminohydroxychromene, Aminocoumarin and Their Antibacterial Activities. 1793

Benchidmi, Mohammed.

Synthesis and 1,3-Dipolar Cycloaddition Reactions of New Pyrazolo[1,5,4-*ef*][1,5]bezodiazepines. 1651

Berry, David A.

Mononuclear Heterocyclic Rearrangement: Synthesis of [5:5] Bicyclic [*c*]-Fused 3-Aminopyrazoles *via* the *N-N* Bond Formation Strategy. 2475

Berthelot, Pascal.

Synthesis of 4-Methoxybenzylamino Derivatives of Dibenzothiadiazepinedioxide. 2457

Bessho, Jun-ichiro.

Convenient Synthesis of Pulchellalactam, a CD45 Protein Tyrosine Phosphatase Inhibitor from the Marine Fungus *Corollospora pulchella*, and Its Related Compounds. 1013

Bevk, David.

Synthesis of 5-Substituted Ethyl 3-Oxo-2*H*-pyrazolo[4,3-*c*]pyridine-7-carboxylates. 609

Biehl, Ed.

An Efficient Synthesis of Benzene Fused Six-, Seven- and Eight-membered Rings Containing Nitrogen and Sulfur by Benzyne Ring Closure Reaction. 2309

Biehl, Ed.

Preparation of Benzothiopyrano[2,3-*b*]indoles by the Reaction of 1,3-Dihydroindole-2-thiones with Certain Dienophiles. 2785

Biehl, Ed.

Facile Synthesis of 5-Acyl-2-amino-1,3-thiazole by the Reaction of Thiaazadienes with α-Halo Ketones. 2805

Biehl, Edward R.

Facile Synthesis of 4*H*-1,3-Benzoselenazines by the Aryne Reaction. 1067

Biehl, Edward R.

New Synthesis of of 3*H*-Benzo[*b*]thiophen-2-ones. 1813

Billon-Souquet, Florence.

Anodic Oxidation of Tetrahydro-β-carboline Derivatives: Formal Oxidation of Protonated Tertiary Amines. 765

Boalino, Dionne M.

A New Diterpene of *Leonotis nepetaefolia*. 383

Boese, Roland.

A Convenient Synthesis of Some New 1,3,4-Benzothiadiazepin-5-ones. 1153

Bouissane, Latifa.

Synthesis and 1,3-Dipolar Cycloaddition Reactions of New Pyrazolo[1,5,4-*ef*][1,5]bezodiazepines. 1651

Bourry, Anne.

Allylic Dehydration, Retro-Pinacol, Pinacol-like and Enamide Reactions: Synthesis of New Isoquinolines. 1855

Bovicelli, Paolo.

Iodoenolcyclization of 2-Allyl Substituted β-Keto Esters under Thermodynamic Conditions. 1573

Briel, Detlef.

A New Synthesis of Thiazole Derivatives *via* Ring Transformation of 6-Imino-6*H*-1,3-thiazine Hydroperchlorates. 2319

Brown, David P.

Synthesis of New Medium Ring Aromatic Lactones *via* Halocyclization of 2-Hydroxyphenylalkanoic Acid Allylic Esters. 1185

Buscemi, Silvestre.

Fluorinated Heterocyclic Compounds. A Photochemical Approach to a Synthesis of Fluorinated Quinazolin-4-ones. 1619

Buscemi, Silvestre.

Molecular Rearrangements of 1-Oxa-2-azoles as an Expedient Route to Fluorinated Heterocyclic Compounds.

2627

C

Cai, Shao Qing.
A Bioactive Alkaloid from the Flowers of *Trollius chinensis*. 1443

Camacho, Antonio Nieto.
Synthesis of 3-Ferrocenyl-3,3a,4,5-tetrahydro-2*H*-benzo[*g*]-indazoles. 1045

Campayo, Lucrecia.
Functionalization of the Ring A in Some Benzo[*g*]pyridazino[1,2-*b*]phthalazine-6,13-dione Derivatives Related to Anthracyclinones. 1299

Camus, Fabrice.
Allylic Dehydration, Retro-Pinacol, Pinacol-like and Enamide Reactions: Synthesis of New Isoquinolines. 1855

Cañizo, Adriana I.
Kinetics of the Thermal Decomposition of Substituted Cyclic Organic Peroxides in Toluene Solution: Substituent Effects on the Reaction Rates and the Activation Parameters of the Unimolecular Reactions. 2231

Cano, M. Carmen.
Functionalization of the Ring A in Some Benzo[*g*]pyridazino[1,2-*b*]phthalazine-6,13-dione Derivatives Related to Anthracyclinones. 1299

Carato, Pascal.
Synthesis of 4-Methoxybenzylamino Derivatives of Dibenzothiadiazepinedioxide. 2457

Castellanos-Arzola, Indira G.
2-(1,3,5-Dithiazinan-5-yl)ethanol Heterocycles, Structure and Reactivity. 2269

Cetina, Mario.
Synthesis of the Novel Bicyclic Oxepinopyrimidine and Fluorinated Pyrrolidinopyrimidines. 2523

Chang, Fang-Rong.
Two Sesquiterpene-Coumarins from the Roots of *Ferula marmarica*. 2101

Chansakaow, Sunee.
Kwakhurin, a Unique Isoflavone with Rejuvenating Activity from "Kwao Keur": Further Characterization by 2D-NMR Spectrometry and Synthesis of Triisopropylkwakhurin. 1375

Chen, Dong-Lin.
Two New C_{19}-Diterpenoid Alkaloids from *Aconitum nagarum* var. *lasiandrum*. 2363

Chen, Qiao-Hong.
Three New Lycoctonine-Type C_{19}-Diterpenoid Alkaloids from *Delphinium giraldii*. 123

Chen, Yeh-Long.
Synthesis and Cytotoxic Evaluation of Certain Tricyclic Benzo[*g*]quinolin-4(1*H*)-one and Benzo[*g*]quinoline-4,9,10-trione Derivatives. 529

Chen, Ying.
New Heterocycles: 4-Methyl-2*H*-pyrano[6,5-*f*]cycloalka[2,1-*b*]2*H*-chromen-2-ones. 1637

Chen, Yingjie.
A New Prenylated Flavone from the Leaves of *Glycyrrhiza uralensis* Cultivated in China. 2091

Chen, Yung-Hua.
Synthesis of Benzofurans from Isovanillin *via* *C*-Propenylation-*O*-vinylation and Ring-closing Metathesis. 1771

Chen, Yung-Husan.
Two Sesquiterpene-Coumarins from the Roots of *Ferula marmarica*. 2101

Chen, Zhen-Chu.
Organic Reactions in Ionic Liquids: A Simple Highly Regioselective or Regiospecific Substitutions of Benzotriazole. 1077

Cheng, Ke-Jun.
Synthesis of 1,4:3,6-Dianhydro-D-mannitol 2,5-(Hydrogen Phosphate) and Its Usage in Palladium-catalyzed Hydroxycarbonylation of Styrene. 2797

Chhikara, Bhupender S.
KF-Alumina Immobilized in Ionic Liquids: A Novel Heterogeneous Base for Heterocyclization of Alkylsulfanylphenylamines into 1,4-Benzothiazine. 1057

Chiaroni, Angele.
Sarcodifurines A and B, Two New Furoquinolines from *Sarcomelicope follicularis*. 2043

Chien, Tun-Cheng.
Mononuclear Heterocyclic Rearrangement: Synthesis of [5:5] Bicyclic [*c*]-Fused 3-Aminopyrazoles *via* the *N*-*N* Bond Formation Strategy. 2475

Chimirri, Alba.
Synthesis of New Potential HIV-1 Integrase Inhibitors. 2727

Cho(Toh), Namiko.
Preparation and Optical Resolution of a New Helical Lactone Carrying the 2,8-Dioxabicyclo[3.3.0]octane Ring System. 137

Cho, Nam Sook.
Organopalladium Complex Containing 5-Amino-3*H*-1,3,4-thiadiazolin-2-ones as Metalloreceptor for DNA/RNA Nucleobases. 2827

Cho, Su-Dong.

Synthetic Studies on Isoquinoline Derivatives with Multidrug Resistance (MDR) Modulating Activity. 75

Cho, Sungmoon.

Synthesis of 2,3,8-Trisubstituted 7*H*-Isoindolo[5,6-*g*]quinoxaline-5,7,9,11(8*H*)-tetraones. 819

Choi, Byeonggil.

Synthesis of 2,3,8-Trisubstituted 7*H*-Isoindolo[5,6-*g*]quinoxaline-5,7,9,11(8*H*)-tetraones. 819

Choi, Jae Soo.

Organopalladium Complex Containing 5-Amino-3*H*-1,3,4-thiadiazolin-2-ones as Metalloreceptor for DNA/RNA Nucleobases. 2827

Choi, Joong-Kwon.

Formation of Unnatural Cyclic Amino Acid Equivalent from the Simple Cyclic Hydrazine. 2379

Choshi, Tominari.

Synthesis of 5-Methylindole-4,7-quinone through a New Construction of the Functionalized Indole Ring Based on the Allene-mediated Electrocyclic Reaction Involving the Pyrrole [*b*]-Bond. 1765

Chosson, Elizabeth.

Sarcodifurines A and B, Two New Furoquinolines from *Sarcomelicope follicularis*. 2043

Choudhary, Muhammad Iqbal.

Lipoxygenase Inhibiting Flavonoids from *Indigofera hetrantha*. 359

Christov, Valerij Ch.

Alkatrienyl Sulfoxides and Sulfones. Part VI. Cheletropic Addition of Sulfur Dioxide to 1- and 3-Vinylallenyl Sulfoxides and Sulfones. 2203

Chrobak, Elwira.

Synthesis of 1-Methyl-3-methylthio- and 1-Methyl-3-methylsulfinyl-4-substituted 2-(1*H*)-Quinolinones. 2329

Chui, Wai-Keung.

Synthesis and Structural Studies of (2-Oxo-2,3-dihydroimidazo[1,2-*a*]pyridin-3-yl)acetic Acids. 55

Chui, Wai-Keung.

A Synthesis of a Novel Heterocyclic System: 2*H*-Furo[3,2-*b*][1,4]benzothiazin-2-one. 2623

Chung, Bong Young.

Synthesis of 2-Substituted 3,4-Dihydroquinazoline Derivatives *via* Regioselective Addition of a Carbon Nucleophile to a Carbodiimide. 95

Ciamaroni, Elisa.

Synthesis of *N*-Bridgehead Fused Bicyclic β-Lactams through Organometal-mediated Transformations of 1,2-Dialkenylaziridines. 2495

Cocco, Maria Teresa.

Synthesis and Structural Studies of 3-Acylamino-4-amino-2,3-dihydro-2-iminothiazole-5-carboxylates and 4-Acylhydrazino-2-aminothiazole-5-carboxylates. 259

Colobic, Amalija.

Synthesis of 5-Substituted Ethyl 3-Oxo-2*H*-pyrazolo[4,3-*c*]pyridine-7-carboxylates. 609

Cong, Zhiqi.

Synthesis and Electrochemical Properties of π-Extended *N*-Arylpyrrolo[3,4-*d*]tetrathiafulvalenes. 1577

Congiu, Cenzo.

Synthesis and Structural Studies of 3-Acylamino-4-amino-2,3-dihydro-2-iminothiazole-5-carboxylates and 4-Acylhydrazino-2-aminothiazole-5-carboxylates. 259

Contreras, Rosalinda.

2-(1,3,5-Dithiazinan-5-yl)ethanol Heterocycles, Structure and Reactivity. 2269

Corkery, T. Christopher.

Synthesis of Hydroxyquinoline Derivatives, Aminohydroxychromene, Aminocoumarin and Their Antibacterial Activities. 1793

Couturier, Daniel.

Allylic Dehydration, Retro-Pinacol, Pinacol-like and Enamide Reactions: Synthesis of New Isoquinolines. 1855

Crozet, Maxime D.

Synthesis of a New Imidazo[4,5-*b*]pyridin-5-one *via* a Vicarious Nucleophilic Substitution of Hydrogen. 1629

Crozet, Michel P.

Synthesis of a New Imidazo[4,5-*b*]pyridin-5-one *via* a Vicarious Nucleophilic Substitution of Hydrogen. 1629

Culberson, Chicita F.

A Novel Secondary Metabolite from *Lethariella sernanderi*. 1023

D

Dabiri, Minoo.

Microwave-assisted One-Pot Three Component Synthesis of Some New 4(3*H*)-Quinazolinone Derivatives. 1417

D'Accorso, Norma.

Synthesis of *N*-Allyl- and *N*-Propadienylacridones Using Phase-Transfer Catalysis. 23

Damu, Amooru G.

Eurycomalin A, a New Dimeric Dihydrobenzofuran from *Eurycoma longifolia*. 2123

Darnaedi, Dedy.

A New Resveratrol Hexamer from *Upuna borneensis*. 129

Davion, Yann.

Synthesis of Substituted 1,4-Benzoxazepin-3-one Deriva-

tives. 1093

Davoli, Paolo.
Synthesis of *N*-Bridgehead Fused Bicyclic β-Lactams through Organometal-mediated Transformations of 1,2-Dialkenylaziridines. 2495

DeBacker, Marc.
Allylic Dehydration, Retro-Pinacol, Pinacol-like and Enamide Reactions: Synthesis of New Isoquinolines. 1855

Debyser, Zeger.
Synthesis of New Potential HIV-1 Integrase Inhibitors. 2727

Deeb, Ali.
Pyridazine Derivatives and Related Compounds Part 10. Reactions of 3-Diazopyrazolo[3,4-*c*]pyridazine with Reactive Methylene Compounds and Other Groups. 1143

Delgado, Mercedes.
Novel 3-Aminothieno[2,3-*b*]pyridine Synthesis *via* a Silicon-directed Anionic Cyclization. 2199

Deng, Wei.
Microwave-assisted One-Pot Synthesis of Trisubstituted Imidazoles on Solid Support. 1613

Doe, Matsumi.
Three New Mexicanolides from the Stem Bark of *Swietenia mahogani* JACQ. 389

Dolly.
Synthesis of 1,2,3-Triazoles. 1175

Dolzhenko, Anton V.
Synthesis and Structural Studies of (2-Oxo-2,3-dihydroimidazo[1,2-*a*]pyridin-3-yl)acetic Acids. 55

Dolzhenko, Anton V.
A Synthesis of a Novel Heterocyclic System: 2*H*-Furo[3,2-*b*][1,4]benzothiazin-2-one. 2623

Dou, De-Qiang.
Two Lignan Glycosides from *Vitis thunbergii*. 871

Dou, Deqiang.
A New Prenylated Flavone from the Leaves of *Glycyrrhiza uralensis* Cultivated in China. 2091

Dowd, Cynthia S.
Synthesis and Spectroscopic Differentiation of 2- and 4-Alkoxythiotetronic Acids. 519

Du, Zhi Zhi.
New *O*-Terpenoidal Coumarins from *Clausena excavata*. 2087

Durant, François.
Allylic Dehydration, Retro-Pinacol, Pinacol-like and Enamide Reactions: Synthesis of New Isoquinolines. 1855

Džambaski, Zdravko.
Sequential Bromination-Rearrangement of Push-Pull Thiazolidines Induced by Pyridinium Hydrobromide Perbromide under Homogenous Reaction Conditions. 851

E

El-Abadelah, Mustafa M.
A Convenient Synthesis of Some New 1,3,4-Benzothiadiazepin-5-ones. 1153

El-Agrody, Ahmed M.
Synthesis of Hydroxyquinoline Derivatives, Aminohydroxychromene, Aminocoumarin and Their Antibacterial Activities. 1793

El Kazzouli, Said.
Synthesis and 1,3-Dipolar Cycloaddition Reactions of New Pyrazolo[1,5,4-*ef*][1,5]bezodiazepines. 1651

Eller, Gernot A.
The 4-Methoxybenzyl (PMB) Function as a Versatile Protecting Group in the Synthesis of *N*-Unsubstituted Pyrazolones. 2537

El-Razek, Mohamed H. Abd.
Two Sesquiterpene-Coumarins from the Roots of *Ferula marmarica*. 2101

Emmett, George C.
Synthesis of *N*-Butyl Side Chain Hydroxylated Metabolites of Roxifiban, a Platelet Glycoprotein IIb/IIIa Receptor Antagonist. 1585

Escalante, Jaime.
Synthesis of 2,3-Dihydro-4(1*H*)-quinazolinones. 2019

Esparza, Rafael Moreno.
Synthesis of 3-Ferrocenyl-3,3a,4,5-tetrahydro-2*H*-benzo[*g*]-indazoles. 1045

Essassi, El Mokhtar.
Synthesis and 1,3-Dipolar Cycloaddition Reactions of New Pyrazolo[1,5,4-*ef*][1,5]bezodiazepines. 1651

Eyler, Gladys N.
Kinetics of the Thermal Decomposition of Substituted Cyclic Organic Peroxides in Toluene Solution: Substituent Effects on the Reaction Rates and the Activation Parameters of the Unimolecular Reactions. 2231

F

Falck, J. R.
Synthetic Studies on Isoquinoline Derivatives with Multidrug Resistance (MDR) Modulating Activity. 75

Fascio, Mirha.

Synthesis of *N*-Allyl- and *N*-Propadienylacridones Using Phase-Transfer Catalysis. 23

Fatima, Itrat.
Iridoid Galactosids and a Benzofuran Type Sesquiterpene from *Buddleja crispa*. 1875

Favel, Anne.
Sarcodifurines A and B, Two New Furoquinolines from *Sarcomelicope follicularis*. 2043

Ferro, Stefania.
Synthesis of New Potential HIV-1 Integrase Inhibitors. 2727

Flores, Patricia.
Synthesis of 2,3-Dihydro-4(1*H*)-quinazolinones. 2019

Flores-Parra, Angelina.
2-(1,3,5-Dithiazinan-5-yl)ethanol Heterocycles, Structure and Reactivity. 2269

Flouquet, Nathalie.
Synthesis of 4-Methoxybenzylamino Derivatives of Dibenzothiadiazepinedioxide. 2457

Fodili, Mokhtar.
Synthesis and Reactivity of a New Pyranoquinoxaline. 1409

Forghaniha, Ali.
A Convenient Method for the Preparation of Some New Derivatives of 1,3,5-*s*-Triazine under Solvent Free Condition. 1897

Forni, Arrigo.
Synthesis of *N*-Bridgehead Fused Bicyclic β-Lactams through Organometal-mediated Transformations of 1,2-Dialkenylaziridines. 2495

Fröhner, Wolfgang.
Transition Metal Complexes in Organic Synthesis, Part 73. Synthetic Routes to Naturally Occurring Furocarbazoles. 2393

Frölich, Johannes.
1,3-Dipolar Cycloaddition Reactions to Galanthamine Nitrone: An Entry to 4a,5,9,10-Tetrahydro-6*H*,14a*H*-benzofuro[3a,3,2-*ef*]isoxazolo[3,2-*a*][2]benzazepines. 2217

Fujii, Hiroyuki.
Some Reactions of 3-Phenyl-8-triphenylphosphoimino-1-azaazulene. 809

Fujii, Hiroyuki.
Synthesis of 2-Chloro-8-(2-pyridyl)-1-azaazulene and Its Metal Complexes. 2341

Fujita, Hiroko.
A Study of Structure and Dynamics of Prochiral N-C Axis for Asymmetric Transition Metal Catalysis, with Phosphorous-31 (V) by 3D NMR Spectroscopy Combined with MO Calculation. 1345

Fukaya, Haruhiko.
Synthesis of Optically Active Tetrahydro-3-benzazepine-2-carboxylic Acid Derivatives *via* the Ring Expansion Reaction of Isoquinolines and Enzymatic Resolution. 17

Fukaya, Haruhiko.
New Cytotoxic Norditerpene Dilactones from Leaves of *Podocarpus macrophyllus* var. *maki*. 347

Fukazawa, Yoshimasa.
Synthesis of Molecular Tweezers Bearing Two Porphyrins and Its Complexation toward Electron Acceptors. 2005

Fukushima, Kazutaka.
The Absolute Structures of Dihydroepiheveadride, as Characteristic Antifungal Agent against Filamentous Fungi, and Its Related Compounds from Unidentified Fungus IFM 52672. 2581

Funaki, Takashi.
Synthesis and Complexing Properties of Crownophanes Possessing Carboxyl Group. 333

Furasawa, Miyuki.
New Resveratrol Dimer Glucosides and Trimers in Stem and Root of *Welwitschia mirabilis*. 1821

Furukawa, Hiroshi.
Two New Bicoumarins from *Clausena excavata*. 115

Furukawa, Hiroshi.
Two New Bicoumarins from the Leaves of *Murraya exotica*. 2837

G

Gabbutt, Christopher D.
Synthesis and Photochromic Properties of Methoxy Substituted 2,2-Diaryl-2*H*-naphtho[1,2-*b*]pyrans. 567

Gallet, Sebastien.
Synthesis of 4-Methoxybenzylamino Derivatives of Dibenzothiadiazepinedioxide. 2457

Gálvez-Ruiz, Juan Carlos.
2-(1,3,5-Dithiazinan-5-yl)ethanol Heterocycles, Structure and Reactivity. 2269

Gao, Liming.
A New Diterpene Alkaloid from *Aconitum brunneum* Hand-Mazz. 1181

García, Marcos Martínez.
Synthesis of 3-Ferrocenyl-3,3a,4,5-tetrahydro-2*H*-benzo[*g*]-indazoles. 1045

García, Maria B.
1-Aryl-3-alkyl-1,4,5,6-tetrahydropyrimidinium Salts. Part 2. Reactions with Nucleophiles. 2557

Génisson, Yves.
New Pyridinium Chiral Ionic Liquids. 2033
Ghosh, Chandra Kanta.
Heterocycles Directly Linked to 3-Position of 1-Benzopyran-4-ones. 2875
Giraudet, Stéphanie.
Synthesis of 4-Methoxybenzylamino Derivatives of Dibenzothiadiazepinedioxide. 2457
Golič, Ljubo.
Synthesis of 5-Substituted Ethyl 3-Oxo-2*H*-pyrazolo[4,3-*c*]pyridine-7-carboxylates. 609
Golobič, Amalija.
Synthesis of 5-Substituted Ethyl 3-Oxo-2*H*-pyrazolo[4,3-*c*]-pyridine-7-carboxylates 609
Gómez-Contreras, Fernando.
Functionalization of the Ring A in Some Benzo[*g*]pyridazino[1,2-*b*]phthalazine-6,13-dione Derivatives Related to Anthracyclinones. 1299
Goodwin, Michael.
Synthesis and Spectroscopic Differentiation of 2- and 4-Alkoxythiotetronic Acids. 519
Goto, Yoshinobu.
Electrophilic Reaction of *N*-Lewis Acid and *N*-Oxide Lewis Acid Complexes of 4-Methylpyridines and Their *N*-Oxides through Base-induced Deprotonation. 2863
Grahn, Walter.
On the Synthesis and Characterization of 3-Arylamino-7-nitro-2*H*-1,4-benzoxazines. 249
Granito, Catia.
Palladium-catalyzed Cyclocarbonylation of Unsaturated Alcohols and Amines. Chemoselective Synthesis of Heterocycle-substituted γ- and δ-Lactones and Lactams. 1027
Grove, William S.
Benzodioxole Chemistry. 5. Dramatic Substituent Effect in the Reaction of Carbonyl-bridged Cyclic Carbonates with Methoxide Ion. 1
Gruttadauria, Michelangelo.
Diastereoselective Synthesis of Substituted 2-Phenyltetrahydropyrans as Useful Precursors of Aryl *C*-Glycosides *via* Selenoetherification. 681
Gubaidullin, Aidar T.
Condensation of 4-Hydroxy-2-thiazolines with 1,2-Phenylenediamine as a Novel Effective Route to Thiazolo[3,4-*a*]-quinoxalines. 1783
Guillaumet, Gérald.
Synthesis of Substituted 1,4-Benzoxazepin-3-one Derivatives. 1093
Guillaumet, Gérald.
Synthesis and 1,3-Dipolar Cycloaddition Reactions of New Pyrazolo[1,5,4-*ef*][1,5]bezodiazepines. 1651
Guo, Qing-Xiang.
One-Pot Synthesis of Tetra-substituted Imidazoles on Silica Gel under Microwave Irradiation. 87
Guo, Qing-Xiang.
Syntheses of Heterocyclic Compounds under Microwave Irradiation. 903
Guo, Qing-Xiang.
Microwave-assisted One-Pot Synthesis of Trisubstituted Imidazoles on Solid Support. 1613
Guo, Wei.
A General and Efficient Method for Synthesis of Functionalized Ethylenediamine Derivatives. 2515

H

Ha, Jae Du.
Formation of Unnatural Cyclic Amino Acid Equivalent from the Simple Cyclic Hydrazine. 2379
Haginoya, Noriyasu.
Facile Methods for Preparation of Thiazolopyridine and Tetrahydrothiazolopyridine Derivatives. 1555
Hagishita, Sanji.
Leptosins O-S, Cytotoxic Metabolites of a Strain of *Leptosphaeria* Sp. Isolated from a Marine Alga. 641
Hajós, György.
New Preparative Route to Hetaryldienes and Azadienes. 2287
Hallak, Linda.
Synthesis and NMR Spectroscopic Investigations with 3-Amino-, 3-Hydroxy-, and 3-Methoxy-4-acyl-1-phenyl-2-pyrazolin-5-ones. 1311
Hametner, Christian.
1,3-Dipolar Cycloaddition Reactions to Galanthamine Nitrone: An Entry to 4a,5,9,10-Tetrahydro-6*H*,14a*H*-benzofuro[3a,3,2-*ef*]isoxazolo[3,2-*a*][2]benzazepines. 2217
Hammal, Lamouri.
Synthesis and Reactivity of a New Pyranoquinoxaline. 1409
Han, Ki-Jong.
Synthesis and Absorption Properties of Zinc-Phthalocyanines with Photoresponsive Azobenzene Groups. 2869
Han, Rongbi.
Indium-mediated Reductive Intermolecular Coupling Reaction of 2-Nitroaniline with Aromatic Aldehydes to Benzimidazoles. 41

Hannioui, Abdellah.
Synthesis and 1,3-Dipolar Cycloaddition Reactions of New Pyrazolo[1,5,4-*ef*][1,5]bezodiazepines. 1651

Hao, Junsheng.
A General and Efficient Method for Synthesis of Functional-
ized Ethylenediamine Derivatives. 2515

Hao, Xiao Jiang.
New *O*-Terpenoidal Coumarins from *Clausena excavata*. 2087

Hara, Daisuke.
Synthesis and Complexing Properties of Crownophanes Possessing Carboxyl Group. 333

Hara, Hiroshi.
Investigation of Intramolecular Pauson-Khand Reaction of 2-Aryl-1,6- and 1-Methyl-1,7-enynes (*exo*-Olefins) and 1-Phenyl-1-octen-7-yne (*endo*-Olefin). 827

Hara, Hiroshi.
Intramolecular Pauson-Khand Reaction of 3-Alkynyl-1-alkylidenecycles: A Convenient Synthesis of [5.n.1.0^{1,5}]-Tricyclic Compounds. 1359

Hara, Ritsuko.
Acylated Peonidin 3-Rutinoside-5-glucosides from Commercial Petunia Cultivars with Pink Flowers. 509

Harrison Jr., Ernest A.
Benzodioxole Chemistry. 5. Dramatic Substituent Effect in the Reaction of Carbonyl-bridged Cyclic Carbonates with Methoxide Ion. 1

Hartmann, Horst.
On the Synthesis and Characterization of 3-Arylamino-7-nitro-2*H*-1,4-benzoxazines. 249

Hasegawa, Koji.
Isolation and Identification of Phototropism-regulating Substances Benzoxazinoids from Maize Coleoptiles. 2707

Hasegawa, Tsuyoshi.
Isolation and Identification of Phototropism-regulating Substances Benzoxazinoids from Maize Coleoptiles. 2707

Hashimoto, Eri.
Synthesis of 2-Chloro-8-(2-pyridyl)-1-azaazulene and Its Metal Complexes. 2341

Hasumi, Masahiro.
A Novel Secondary Metabolite from *Lethariella sernanderi*. 1023

Hasunuma, Miyako.
Improvement in the Regioselectivity in the Ruthenium-catalyzed Metathesis Reaction of 2-Azabicyclo[2.2.1]hept-5-en-3-one (ABH) with Allyltrimethylsilane. 5

Hatanaka, Minoru.
Studies of Isoindoles. 12. A Structural Revision of the 1:2 Mannich Type Condensation Reaction Product Formed from *o*-Phthalaldehyde and Substituted Aniline. 1267

Hatano, Tsutomu.
Characterization of the Oxidation Products of (-)-Epigallocatechin Gallate, a Bioactive Tea Polyphenol, on Incubation in Neutral Solution. 1547

Hay, Anne-Emmanuelle.
Sarcodifurines A and B, Two New Furoquinolines from *Sarcomelicope follicularis*. 2043

Hayashi, Kazutaka.
Reactions of 5-Hydroxymethyl-1*H*-indole-4,7-dione with Enamines for the First Construction of 1*H*,5*H*-Pyrano[3,4-*f*]-indole-4,9-dione Derivatives. 1679

He, Hong Ping.
New *O*-Terpenoidal Coumarins from *Clausena excavata*. 2087

He, Shan-An.
The Asymmetric Synthesis of Linear Dihydropyranocoumarins for Alzheimer's Disease. 271

He, Yue-Hua.
Two Lignan Glycosides from *Vitis thunbergii*. 871

Hemetsberger, Margit.
1,3-Dipolar Cycloaddition Reactions to Galanthamine Nitrone: An Entry to 4a,5,9,10-Tetrahydro-6*H*,14a*H*-benzofuro[3a,3,2-*ef*]isoxazolo[3,2-*a*][2]benzazepines. 2217

Heng, Paul W. S.
Synthesis and Structural Studies of (2-Oxo-2,3-dihydroimidazo[1,2-*a*]pyridin-3-yl)acetic Acids. 55

Hepworth, John D.
Synthesis and Photochromic Properties of Methoxy Substituted 2,2-Diaryl-2*H*-naphtho[1,2-*b*]pyrans. 567

Hernández, José V.
A Xanthone-based Macrocyclic Receptor and Its Possible Applications. 2465

Heron, B. Mark.
Synthesis and Photochromic Properties of Methoxy Substituted 2,2-Diaryl-2*H*-naphtho[1,2-*b*]pyrans. 567

Hibino, Satoshi.
Synthesis of 5-Methylindole-4,7-quinone through a New Construction of the Functionalized Indole Ring Based on the Allene-mediated Electrocyclic Reaction Involving the Pyrrole [*b*]-Bond. 1765

Higuchi, Yoshihiro.
Kwakhurin, a Unique Isoflavone with Rejuvenating Activity from "Kwao Keur": Further Characterization by 2D-NMR Spectrometry and Synthesis of Triisopropylkwakhurin. 1375

Higuchi, Yoshitaka.
Palladium(II)-mediated Nucleophilic Cyanation of 4-Sub-

stituted Quinoline 1-Oxide in the Presence of Trimethylsilyl Cyanide and an Oxidant. 2859

Hirai, Yoshiro.

Palladium(II)-catalyzed Stereocontrolled Cyclization *via* Hemiacetal Intermediates: Total Synthesis of 5-Epi-prelactone C. 1017

Hirayama, Maho.

Synthesis of 5-Methylindole-4,7-quinone through a New Construction of the Functionalized Indole Ring Based on the Allene-mediated Electrocyclic Reaction Involving the Pyrrole [*b*]-Bond. 1765

Hirayama, Yuji.

Acylated Peonidin 3-Rutinoside-5-glucosides from Commercial Petunia Cultivars with Pink Flowers. 509

Hitotsuyanagi, Yukio.

Quassinoid Xylosides, Javanicosides G and H, from Seeds of *Brucea javanica*. 691

Hiura, Saki.

Synthesis of Molecular Tweezers Bearing Two Porphyrins and Its Complexation toward Electron Acceptors. 2005

Hocek, Michal.

Synthesis of Protected (Purin-6-yl)glycines *via* Pd-Catalyzed α-Arylation of Ethyl *N*-(Diphenylmethylidene)glycinate with 6-Iodopurines. 1673

Hoesl, Cornelia.

Stereoselective Synthesis of 1-Substituted 1,2,3,4-Tetrahydro-β-carbolines by Asymmetric Electrophilic α-Amidoalkylation Reactions. 2747

Hoffmann, Pascal.

Synthesis and Reactivity of a New Pyranoquinoxaline. 1409

Holzer, Wolfgang.

Synthesis and NMR Spectroscopic Investigations with 3-Amino-, 3-Hydroxy-, and 3-Methoxy-4-acyl-1-phenyl-2-pyrazolin-5-ones. 1311

Holzer, Wolfgang.

The 4-Methoxybenzyl (PMB) Function as a Versatile Protecting Group in the Synthesis of *N*-Unsubstituted Pyrazolones. 2537

Honda, Toshio.

(Delphinidin 3-Gentiobiosyl) (Luteorin 7-Glucosyl) Malonate from the Flowers of *Eichhornia crassipes*. 899

Honda, Toshio.

An Acylated Pelargonidin 3-Sophoroside from the Pale-brownish Red Flowers of *Ipomoea nil*. 1449

Hong, Chang Sung.

Synthesis of Aromatic Ring Fused Pyrrole Derivatives by Palladium-catalyzed Annulation of *o*-Iodoarylamines with Allyl Acetate. 631

Hori, Mami.

Characterization of the Oxidation Products of (-)-Epigallocatechin Gallate, a Bioactive Tea Polyphenol, on Incubation in Neutral Solution. 1547

Horikiri, Hiromasa.

A Convenient Oxidation Method of the Benzylic 10-Position in 4,5-Epoxymorphinan. 865

Horne, David A.

Regioselective Cleavage of Trisubstituted Epoxy-Linkage Using Lithium Trialkylborohydride Reagents: A New Route to the Key Intermediate of Maxacalcitol. 1335

Hoshino, Atsushi.

An Acylated Pelargonidin 3-Sophoroside from the Pale-brownish Red Flowers of *Ipomoea nil*. 1449

Hoshino, Osamu.

Investigation of Intramolecular Pauson-Khand Reaction of 2-Aryl-1,6- and 1-Methyl-1,7-enynes (*exo*-Olefins) and 1-Phenyl-1-octen-7-yne (*endo*-Olefin). 827

Hoshino, Osamu.

Intramolecular Pauson-Khand Reaction of 3-Alkynyl-1-alkylidenecycles: A Convenient Synthesis of [5.n.1.$0^{1,5}$] Tricyclic Compounds. 1359

Hosoe, Tomoo.

The Absolute Structures of Dihydroepiheveadride, as Characteristic Antifungal Agent against Filamentous Fungi, and Its Related Compounds from Unidentified Fungus IFM 52672. 2581

Hosoi, Shinzo.

Studies of Isoindoles. 12. A Structural Revision of the 1:2 Mannich Type Condensation Reaction Product Formed from *o*-Phthalaldehyde and Substituted Aniline. 1267

Hsu, Shu-Lin.

Synthesis and Cytotoxic Evaluation of Certain Tricyclic Benzo[*g*]quinolin-4(1*H*)-one and Benzo[*g*]quinoline-4,9,10-trione Derivatives. 529

Hu, Xin.

Study on Syntheses and Structure of a New Kind of Bis-heterocyclic Thiadiazine Derivatives Containing Pyrazolone. 2079

Hu, Yi.

Organic Reactions in Ionic Liquids: A Simple Highly Regioselective or Regiospecific Substitutions of Benzotriazole. 1077

Huang, Hui-Chi.

Two Sesquiterpene-Coumarins from the Roots of *Ferula marmarica*. 2101

Huang, Keng-Shiang.

Synthesis of Benzofurans from Isovanillin *via* *C*-Propenylation-*O*-vinylation and Ring-closing Metathesis. 1771

Huang, Zuo-Gang.
Synthesis of 1,4:3,6-Dianhydro-D-mannitol 2,5-(Hydrogen Phosphate) and Its Usage in Palladium-catalyzed Hydroxycarbonylation of Styrene. 2797

Hull, Jr., John W.
Palladium-catalyzed Carbonylation of Polychlorinated Pyridines. A Simple Laboratory Approach to Metal Catalyzed Carbonylation Reactions. 411

Hytrek, Janice L.
Synthesis of *N*-Butyl Side Chain Hydroxylated Metabolites of Roxifiban, a Platelet Glycoprotein IIb/IIIa Receptor Antagonist. 1585

I

Ianelli, Sandra.
Synthesis and Structural Studies of 3-Acylamino-4-amino-2,3-dihydro-2-iminothiazole-5-carboxylates and 4-Acylhydrazino-2-aminothiazole-5-carboxylates. 259

Ichino, Chikara.
A New Pterocarpan from *Erythrina fusca*. 879

Igarashi, Tetsutaro.
Selective Phototransformation of Hydroxy-substituted Aromatic Nitrones into *N,N*-Diarylformamide Derivatives Showing a Novel Conformational Isomerism. 241

Igarashi, Tetsutaro.
A Novel Ring-opening Reaction of (*Z*)-2-Methyl-4-arylmethylene-5(4*H*)-oxazolone Derivatives with Acylhydrazines. 1273

Ihara, Hirotaka.
Dendritic Cyclotriphosphazene Derivative with Hexaxis-(alkylazobenzene) Substitution as Photo-sensitive Trigger. 1563

Iida, Naoki.
New Neolignan and Phenylpropanoid Glycosides in *Juniperus communis* var. *depressa*. 2573

Iida, Shigeru.
An Acylated Pelargonidin 3-Sophoroside from the Pale-brownish Red Flowers of *Ipomoea nil*. 1449

Iinuma, Munekazu.
A New Resveratrol Hexamer from *Upuna borneensis*. 129

Iinuma, Munekazu.
New Resveratrol Dimer Glucosides and Trimers in Stem and Root of *Welwitschia mirabilis*. 1821

Iinuma, Munekazu.
New Neolignan and Phenylpropanoid Glycosides in *Juniperus communis* var. *depressa*. 2573

Ikeda, Yusuke.
Preparation and Optical Resolution of a New Helical Lactone Carrying the 2,8-Dioxabicyclo[3.3.0]octane Ring System. 137

Iliya, Ibrahim.
New Resveratrol Dimer Glucosides and Trimers in Stem and Root of *Welwitschia mirabilis*. 1821

Imafuku, Kimiaki.
Synthesis and Electrochemical Properties of π-Extended *N*-Arylpyrrolo[3,4-*d*]tetrathiafulvalenes. 1577

Inada, Akira.
New Neolignan and Phenylpropanoid Glycosides in *Juniperus communis* var. *depressa*. 2573

Inagaki, Hiroaki.
Practical Synthesis of DQ-113, a New Quinolone Antibacterial Agent, by Using the Intramolecular Horner-Wadsworth-Emmons Reaction. 699

Inatomi, Yuka.
New Neolignan and Phenylpropanoid Glycosides in *Juniperus communis* var. *depressa*. 2573

Inokuma, Seiichi.
Synthesis and Complexing Properties of Crownophanes Possessing Carboxyl Group. 333

Inoue, Chizuru.
Well-divided and pH-Dependent Bimodal Chemiluminescence of 2-Methyl-6-phenyl-8-(4-substituted phenyl)imidazo[1,2-*a*]pyrazin-3(7*H*)-ones Induced by Superoxide Anion. 759

Ishigami, Ken.
Synthesis of Microcarpalide, a Microfilament Disrupting Agent. 785

Ishikawa, Hayato.
m-Chloroperbenzoic Acid Oxidation of Corynanthe-Type Indole Alkaloid, Mitragynine, Afforded Unusual Dimerization Products. 2597

Ishikawa, Hiroyuki.
Synthesis of 2-Arylbenzothiazoles and Imidazoles Using Scandium Triflate as a Catalyst for Both a Ring Closing and an Oxidation Steps. 2769

Ishikawa, Tsutomu.
Kwakhurin, a Unique Isoflavone with Rejuvenating Activity from "Kwao Keur": Further Characterization by 2D-NMR Spectrometry and Synthesis of Triisopropylkwakhurin. 1375

Ishikawa, Yuichi.
Synthetic Studies on Azaspiracid, a Novel Shellfish Poison: Attempts to Construct the ABCD Ring System. 539

Ishikawa, Yuichi.
Synthesis of the ABCD Ring System of Azaspiracid, a Ma-

rine Poison from *Mytilus edulis*. 885

Ishikura, Koji.

A New Method for Regioselective Synthesis of a Broad-Spectrum Parenteral S-3578-Related Cephalosporin Bearing an Imidazo[4,5-*b*]pyridinium Derivative at C-3'. 1757

Ishikura, Minoru.

Improvement in the Regioselectivity in the Ruthenium-catalyzed Metathesis Reaction of 2-Azabicyclo[2.2.1]hept-5-en-3-one (ABH) with Allyltrimethylsilane. 5

Ishiwada, Tomoko.

Absolute Stereostructures of Acylated Khellactone-Type Coumarins from *Angelica furcijuga*. 2211

Ishizaki, Miyuki.

Investigation of Intramolecular Pauson-Khand Reaction of 2-Aryl-1,6- and 1-Methyl-1,7-enynes (*exo*-Olefins) and 1-Phenyl-1-octen-7-yne (*endo*-Olefin). 827

Ishizaki, Miyuki.

Intramolecular Pauson-Khand Reaction of 3-Alkynyl-1-alkylidenecycles: A Convenient Synthesis of [5.n.1.$0^{1,5}$]-Tricyclic Compounds. 1359

Itabashi, Takeshi.

The Absolute Structures of Dihydroepiheveadride, as Characteristic Antifungal Agent against Filamentous Fungi, and Its Related Compounds from Unidentified Fungus IFM 52672. 2581

Ito, Chihiro.

Two New Bicoumarins from *Clausena excavata*. 115

Ito, Chihiro.

Two New Bicoumarins from the Leaves of *Murraya exotica*. 2837

Ito, Hideyuki.

Characterization of the Oxidation Products of (-)-Epigallocatechin Gallate, a Bioactive Tea Polyphenol, on Incubation in Neutral Solution. 1547

Ito, Shigekazu.

Characterization of a 3,4-Dihydro-1,3,4-triphosphacyclopenta[*a*]indene as an Isomer of a Mes*-substituted 1,3,6-Triphosphafulvene (Mes* = 2,4,6-*t*-$Bu_3C_6H_2$). 2591

Ito, Tetsuro.

A New Resveratrol Hexamer from *Upuna borneensis*. 129

Ito, Tetsuro.

New Resveratrol Dimer Glucosides and Trimers in Stem and Root of *Welwitschia mirabilis*. 1821

Itoh, Takashi.

Syntheses of 1,2,3,4,6,7,12,12b-Octahydroindolo[2,3-*a*]-quinolizine and Harmicine Using a Chiral 1-Allyl-1,2,3,4-tetrahydro-β-carboline as the Starting Material. 655

Itoh, Takashi.

Synthesis of 2-Arylbenzothiazoles and Imidazoles Using Scandium Triflate as a Catalyst for Both a Ring Closing and an Oxidation Steps. 2769

Itokawa, Hideji.

Two New Sesquiterpene Pyridine Alkaloids from *Maytenus chuchuhuasca*. 1891

Ivachtchenko, Alexandre V.

Synthesis of 5*H*-Pyrazolo[4,3-*c*]quinolines. 1883

Ivanov, Ivaylo K.

Alkatrienyl Sulfoxides and Sulfones. Part VI. Cheletropic Addition of Sulfur Dioxide to 1- and 3-Vinylallenyl Sulfoxides and Sulfones. 2203

Iwagawa, Tetsuo.

Three New Mexicanolides from the Stem Bark of *Swietenia mahogani* JACQ. 389

Iwamoto, Chika.

Leptosins O-S, Cytotoxic Metabolites of a Strain of *Leptosphaeria* Sp. Isolated from a Marine Alga. 641

Iwamoto, Hajime.

Synthesis of Molecular Tweezers Bearing Two Porphyrins and Its Complexation toward Electron Acceptors. 2005

Iwamoto, Ken-ichi.

Reaction of [1,4]Benzodioxinopyridazines with Sodium Methoxide and Amines. 591

Iwasaki, Misako.

Kwakhurin, a Unique Isoflavone with Rejuvenating Activity from "Kwao Keur": Further Characterization by 2D-NMR Spectrometry and Synthesis of Triisopropylkwakhurin. 1375

J

Jakše, Renata.

Synthesis of 5-Substituted Ethyl 3-Oxo-2*H*-pyrazolo[4,3-*c*]pyridine-7-carboxylates. 609

Jarry, Christian.

Synthesis of Substituted 1,4-Benzoxazepin-3-one Derivatives. 1093

Jean-Gaspar, Javier C.

2-(1,3,5-Dithiazinan-5-yl)ethanol Heterocycles, Structure and Reactivity. 2269

Ji, Hong.

Two New C_{19}-Diterpenoid Alkaloids from *Aconitum nagarum* var. *lasiandrum*. 2363

Jia, Dian-Zeng.

Study on Syntheses and Structure of a New Kind of Bisheterocyclic Thiadiazine Derivatives Containing Pyrazolone. 2079

Jiang, Biao.
Synthesis of 1,4:3,6-Dianhydro-D-mannitol 2,5-(Hydrogen Phosphate) and Its Usage in Palladium-catalyzed Hydroxycarbonylation of Styrene. 2797

Jiang, Rong.
Synthesis and Reactions of *N*-Ethynyl-heterocycles. 1455

Jiménez, Rafael.
Functionalization of the Ring A in Some Benzo[*g*]pyridazino[1,2-*b*]phthalazine-6,13-dione Derivatives Related to Anthracyclinones. 1299

Jin, Xiaoling.
A New Diterpene Alkaloid from *Aconitum brunneum* Hand-Mazz. 1181

Jones, Peter G.
On the Synthesis and Characterization of 3-Arylamino-7-nitro-2*H*-1,4-benzoxazines. 249

Jordis, Ulrich.
1,3-Dipolar Cycloaddition Reactions to Galanthamine Nitrone: An Entry to 4a,5,9,10-Tetrahydro-6*H*,14a*H*-benzofuro[3a,3,2-*ef*]isoxazolo[3,2-*a*][2]benzazepines. 2217

Joseph-Nathan, Pedro.
Synthesis of Isotope Labeled Me(*3a*)-^{13}*C*-Physostigmine and Debromoflustramine B. 1131

Ju-ichi, Motoharu.
Two New Bicoumarins from *Clausena excavata*. 115

Ju-ichi, Motoharu.
Two New Bicoumarins from the Leaves of *Murraya exotica*. 2837

Jun, Young Moo.
Indium-mediated Reductive Intermolecular Coupling Reaction of 2-Nitroaniline with Aromatic Aldehydes to Benzimidazoles. 41

Jung, Jae-Kyung.
Synthesis of 2,3,8-Trisubstituted 7*H*-Isoindolo[5,6-*g*]quinoxaline-5,7,9,11(8*H*)-tetraones. 819

K

Kaafarani, Mustapha.
Synthesis of a New Imidazo[4,5-*b*]pyridin-5-one *via* a Vicarious Nucleophilic Substitution of Hydrogen. 1629

Kadokawa, Jun-ichi.
Direct Conversion of 2-Acetamido-2-deoxysugars to 1,2-Oxazoline Derivatives by Dehydrative Cyclization in Water. 1531

Kai, Noriyuki.
New Cytotoxic Norditerpene Dilactones from Leaves of *Podocarpus macrophyllus* var. *maki*. 347

Kajimoto, Tetsuya.
Synthesis of CMP-sialic Acid Mimics That Have 5-Fluorouracil for Cytosine and the C-Terminal's Peptide Bond for the Phosphate Group: Targeting Inhibitors of Sialyltransferases. 779

Kakehi, Akikazu.
Synthesis of 2-Chloro-8-(2-pyridyl)-1-azaazulene and Its Metal Complexes. 2341

Kakuchi, Suzuka.
Selective Recognition of Rotaxanes for an Alkali Metal Ion. 2713

Kam, Toh-Seok.
Conodusarine, a New Biologically Active Bisindole Alkaloid from *Tabernaemontana divaricata*. 845

Kamila, Sukanta.
New Synthesis of of 3*H*-Benzo[*b*]thiophen-2-ones. 1813

Kamila, Sukanta.
Preparation of Benzothiopyrano[2,3-*b*]indoles by the Reaction of 1,3-Dihydroindole-2-thiones with Certain Dienophiles. 2785

Kamitori, Yasuhiro.
A Convenient Synthesis of Trifluoromethylpyridazines from 3-Hydrazono-1,1,1-trifluoroalkan-2-ones. 707

Kanao, Kinuko.
Two New Bicoumarins from *Clausena excavata*. 115

Kanda, Hiromi.
Novel Synthesis, Properties, and Structural Characteristics of 1,6-Dialkylpyrimido[5,4-*e*][n](2,4)pyridinophane-5,7(1*H*,6*H*)-diones. 319

Kaneko, Chikara.
Density Functional Theory Study of the Preferred Conformation of Geissoschizine. 663

Kang, Seung Kyu.
Formation of Unnatural Cyclic Amino Acid Equivalent from the Simple Cyclic Hydrazine. 2379

Kang, Sung Kwon.
Organopalladium Complex Containing 5-Amino-3*H*-1,3,4-thiadiazolin-2-ones as Metalloreceptor for DNA/RNA Nucleobases. 2827

Kanizsai, Iván.
Preparation and Structure of *Diexo*-Oxanorbornane-fused 1,3-Heterocycles. 63

Kanno, Hideyuki.
Facile Methods for Preparation of Thiazolopyridine and Tetrahydrothiazolopyridine Derivatives. 1555

Kanno, Yoshitaka.
A Novel Ring-opening Reaction of (*Z*)-2-Methyl-4-arylmethylene-5(4*H*)-oxazolone Derivatives with Acylhydrazines.

1273

Karimi, Ali R.

A Simple and Efficient Synthesis of New 6-Arylimino-6*H*-indolo[2,1-*b*]quinazolin-12-ones under Microwave Irradiation. 791

Karimi, Ali R.

$KAl(SO_4)_2{\cdot}12H_2O$: An Efficient Catalyst for the Stereoselective Synthesis of *cis*-Isoquinolonic Acids. 2013

Karimi, Ali R.

Three Component Synthesis of Some γ-Spiroiminolactones under Microwave-assisted Solvent-free Conditions. 2225

Kashimura, Masato.

Conformational Analysis of Tricyclic Ketolide TE-802 and Its Analogues. 2057

Katano, Emi.

Formation of 3-Pyrrolin-2-ones *via* 5-*Endo-trig* Cyclization. 1009

Kato, Ichiro.

Synthesis of Optically Active Tetrahydro-3-benzazepine-2-carboxylic Acid Derivatives *via* the Ring Expansion Reaction of Isoquinolines and Enzymatic Resolution. 17

Kato, Ikuo.

Reaction of [1,4]Benzodioxinopyridazines with Sodium Methoxide and Amines. 591

Kato, Yutaka.

Synthesis of Fluorescent Derivatization Reagents: Reaction of Isatin with 3-Aryl-7-diethylaminocoumarins and Their Fluorescent Properties. 1083

Katoh, Akira.

Well-divided and pH-Dependent Bimodal Chemiluminescence of 2-Methyl-6-phenyl-8-(4-substituted phenyl)imidazo[1,2-*a*]pyrazin-3(7*H*)-ones Induced by Superoxide Anion. 759

Katritzky, Alan R.

Synthesis and Reactions of *N*-Ethynyl-heterocycles. 1455

Kaufmann, Dieter E.

Chemistry of Polyhalogenated Nitrobutadienes, 1: A New Synthesis of Perfunctionalized 3-Amino-4-nitrothiophenes. 1281

Kawai, Ken-ichi.

The Absolute Structures of Dihydroepiheveadride, as Characteristic Antifungal Agent against Filamentous Fungi, and Its Related Compounds from Unidentified Fungus IFM 52672. 2581

Kawakami, Katsuhiro.

Practical Synthesis of DQ-113, a New Quinolone Antibacterial Agent, by Using the Intramolecular Horner-Wadsworth-Emmons Reaction. 699

Kawamura, Kuniaki.

A Convenient Oxidation Method of the Benzylic 10-Position in 4,5-Epoxymorphinan. 865

Kawano, Miki.

Synthesis and Characterization of Hexakis(4-pyridylethynyl)benzene and Hexakis(5-pyrimidylethynyl)benzene. 1537

Kay, Kwang-Yol.

Synthesis and Absorption Properties of Zinc-Phthalocyanines with Photoresponsive Azobenzene Groups. 2869

Kazuta, Kumiko.

A Study of Structure and Dynamics of Prochiral N-C Axis for Asymmetric Transition Metal Catalysis, with Phosphorous-31 (V) by 3D NMR Spectroscopy Combined with MO Calculation. 1345

Khajavi, Mohammad S.

Microwave-assisted One-Pot Three Component Synthesis of Some New 4(3*H*)-Quinazolinone Derivatives. 1417

Khaomek, Pranorm.

A New Pterocarpan from *Erythrina fusca*. 879

Khier, Nawel.

Synthesis and Reactivity of a New Pyranoquinoxaline. 1409

Khouili, Mostafa.

Synthesis and 1,3-Dipolar Cycloaddition Reactions of New Pyrazolo[1,5,4-*ef*][1,5]bezodiazepines. 1651

Khrustalev, Viktor N.

Synthesis and Structural Studies of (2-Oxo-2,3-dihydroimidazo[1,2-*a*]pyridin-3-yl)acetic Acids. 55

Kilner, Colin.

Synthesis and Photochromic Properties of Methoxy Substituted 2,2-Diaryl-2*H*-naphtho[1,2-*b*]pyrans. 567

Kim, Byeong Hyo.

Indium-mediated Reductive Intermolecular Coupling Reaction of 2-Nitroaniline with Aromatic Aldehydes to Benzimidazoles. 41

Kim, Hye-Min.

Formation of Unnatural Cyclic Amino Acid Equivalent from the Simple Cyclic Hydrazine. 2379

Kim, Ik Hwi.

Quassinoid Xylosides, Javanicosides G and H, from Seeds of *Brucea javanica*. 691

Kim, Ji Sook.

Indium-mediated Reductive Intermolecular Coupling Reaction of 2-Nitroaniline with Aromatic Aldehydes to Benzimidazoles. 41

Kim, Min Sung.

Formation of Unnatural Cyclic Amino Acid Equivalent from the Simple Cyclic Hydrazine. 2379

Kim, Pilho.
Synthesis and Spectroscopic Differentiation of 2- and 4-Alkoxythiotetronic Acids. 519

Kim, Sung Soo.
Formation of Unnatural Cyclic Amino Acid Equivalent from the Simple Cyclic Hydrazine. 2379

Kim, Yeong-Joon.
Organopalladium Complex Containing 5-Amino-3*H*-1,3,4-thiadiazolin-2-ones as Metalloreceptor for DNA/RNA Nucleobases. 2827

Kimachi, Tetsutaro.
Two New Bicoumarins from the Leaves of *Murraya exotica*. 2837

Kinoshita, Kaoru.
A Novel Secondary Metabolite from *Lethariella sernanderi*. 1023

Kitahara, Katsuaki.
Synthesis of Optically Active Tetrahydro-3-benzazepine-2-carboxylic Acid Derivatives *via* the Ring Expansion Reaction of Isoquinolines and Enzymatic Resolution. 17

Kitahara, Takeshi.
Synthesis of Microcarpalide, a Microfilament Disrupting Agent. 785

Kitajima, Mariko.
Density Functional Theory Study of the Preferred Conformation of Geissoschizine. 663

Kitajima, Mariko.
m-Chloroperbenzoic Acid Oxidation of Corynanthe-Type Indole Alkaloid, Mitragynine, Afforded Unusual Dimerization Products. 2597

Kiyohara, Hiroaki.
A New Pterocarpan from *Erythrina fusca*. 879

Kleinpeter, Erich.
Preparation and Structure of *Diexo*-Oxanorbornane-fused 1,3-Heterocycles. 63

Klimova, Elena.
Synthesis of 3-Ferrocenyl-3,3a,4,5-tetrahydro-2*H*-benzo[*g*]-indazoles. 1045

Klimova, Tatiana.
Synthesis of 3-Ferrocenyl-3,3a,4,5-tetrahydro-2*H*-benzo[*g*]-indazoles. 1045

Knölker, Hans-Joachim.
Transition Metal Complexes in Organic Synthesis, Part 73. Synthetic Routes to Naturally Occurring Furocarbazoles. 2393

Kobayashi, Kazuhiro.
Reactions of 5-Hydroxymethyl-1*H*-indole-4,7-dione with Enamines for the First Construction of 1*H*,5*H*-Pyrano[3,4-*f*]-indole-4,9-dione Derivatives. 1679

Koike, Kazuo.
Two New Naphthalenyl Glucosides and a New Phenylbutyric Acid Glucoside from the Fruit of *Juglans mandshurica*. 1429

Koike, Kazuo.
A New Prenylated Flavone from the Leaves of *Glycyrrhiza uralensis* Cultivated in China. 2091

Kolotova, Nina V.
Synthesis and Structural Studies of (2-Oxo-2,3-dihydroimidazo[1,2-*a*]pyridin-3-yl)acetic Acids. 55

Komoriya, Satoshi.
Facile Methods for Preparation of Thiazolopyridine and Tetrahydrothiazolopyridine Derivatives. 1555

Kondo, Harunobu.
Selective Phototransformation of Hydroxy-substituted Aromatic Nitrones into *N*,*N*-Diarylformamide Derivatives Showing a Novel Conformational Isomerism. 241

Kondo, Kazuhiro.
A Study of Structure and Dynamics of Prochiral N-C Axis for Asymmetric Transition Metal Catalysis, with Phosphorous-31 (V) by 3D NMR Spectroscopy Combined with MO Calculation. 1345

Kong, Ling-Yi.
The Asymmetric Synthesis of Linear Dihydropyranocoumarins for Alzheimer's Disease. 271

Konishi, Hisatoshi.
Reactions of 5-Hydroxymethyl-1*H*-indole-4,7-dione with Enamines for the First Construction of 1*H*,5*H*-Pyrano[3,4-*f*]indole-4,9-dione Derivatives. 1679

Konn, Akihito.
Useful Synthesis of 2,3,6-Tri- and 2,3,5,6-Tetrasubstituted Pyridine Derivatives from Aspartic Acid. 2735

Konoshima, Asami.
Two New Bicoumarins from *Clausena excavata*. 115

Koohshari, M.
$KAl(SO_4)_2 \cdot 12H_2O$: An Efficient Catalyst for the Stereoselective Synthesis of *cis*-Isoquinolonic Acids. 2013

Koseki, Yuji.
Synthesis of Optically Active Tetrahydro-3-benzazepine-2-carboxylic Acid Derivatives *via* the Ring Expansion Reaction of Isoquinolines and Enzymatic Resolution. 17

Kotb, Mahmoud.
Pyridazine Derivatives and Related Compounds Part 10. Reactions of 3-Diazopyrazolo[3,4-*c*]pyridazine with Reactive Methylene Compounds and Other Groups. 1143

Kovalenko, Sergiy M.
Synthesis of 5*H*-Pyrazolo[4,3-*c*]quinolines. 1883

Koyama, Kiyotaka.
A Novel Secondary Metabolite from *Lethariella sernanderi*.

1023

Kozminykh, Vladislav O.
Synthesis and Structural Studies of (2-Oxo-2,3-dihydroimidazo[1,2-*a*]pyridin-3-yl)acetic Acids. 55

Krahl, Micha P.
Transition Metal Complexes in Organic Synthesis, Part 73. Synthetic Routes to Naturally Occurring Furocarbazoles. 2393

Krishnamurthy, Lalitha.
Synthesis of New Medium Ring Aromatic Lactones *via* Halocyclization of 2-Hydroxyphenylalkanoic Acid Allylic Esters. 1185

Kubo, Akinori.
Synthesis of Mimosamycin and 5,8-Dihydroxy-4,7-dimethoxy-2,6-dimethylisoquinolinium Iodide. 1849

Kubo, Akinori.
Synthesis of Cribrostatin 6. 2355

Kubo, Kanji.
Selective Phototransformation of Hydroxy-substituted Aromatic Nitrones into *N,N*-Diarylformamide Derivatives Showing a Novel Conformational Isomerism. 241

Kubo, Kanji.
A Novel Ring-opening Reaction of (*Z*)-2-Methyl-4-arylmethylene-5(4*H*)-oxazolone Derivatives with Acylhydrazines. 1273

Kubodera, Noboru.
Regioselective Cleavage of Trisubstituted Epoxy-Linkage Using Lithium Trialkylborohydride Reagents: A New Route to the Key Intermediate of Maxacalcitol. 1335

Kumar, Ajay.
Synthesis of Heterocyclic Compounds from the Reactions of Dehydroacetic Acid (DHA) and Its Derivatives. 1193

Kumar, Devinder.
Structural Revision in Pyrazole Chemistry. 145

Kumemura, Teppei.
Synthesis of 5-Methylindole-4,7-quinone through a New Construction of the Functionalized Indole Ring Based on the Allene-mediated Electrocyclic Reaction Involving the Pyrrole [*b*]-Bond. 1765

Kuo, Ping-Chung.
Eurycomalin A, a New Dimeric Dihydrobenzofuran from *Eurycoma longifolia*. 2123

Kuroe, Motoki.
Chemiluminescent Autoxidation of α-Silyl Carbanions Derived from 9-Silyl-10-methylacridanes. 1667

Kusuda, Miwako.
Characterization of the Oxidation Products of (-)-Epigallocatechin Gallate, a Bioactive Tea Polyphenol, on Incubation in Neutral Solution. 1547

L

Lang, Frank A.
New Neolignan and Phenylpropanoid Glycosides in *Juniperus communis* var. *depressa*. 2573

Lauth-de Viguerie, Nancy.
New Pyridinium Chiral Ionic Liquids. 2033

Le, Zhang-Gao.
Organic Reactions in Ionic Liquids: A Simple Highly Regioselective or Regiospecific Substitutions of Benzotriazole. 1077

Lebegue, Nicolas.
Synthesis of 4-Methoxybenzylamino Derivatives of Dibenzothiadiazepinedioxide. 2457

Lee, Bum Hoon.
Synthesis of 2-Substituted 3,4-Dihydroquinazoline Derivatives *via* Regioselective Addition of a Carbon Nucleophile to a Carbodiimide. 95

Lee, Byung Min.
Indium-mediated Reductive Intermolecular Coupling Reaction of 2-Nitroaniline with Aromatic Aldehydes to Benzimidazoles. 41

Lee, Chun Ho.
Organopalladium Complex Containing 5-Amino-3*H*-1,3,4-thiadiazolin-2-ones as Metalloreceptor for DNA/RNA Nucleobases. 2827

Lee, Heesoon.
Synthesis of 2,3,8-Trisubstituted 7*H*-Isoindolo[5,6-*g*]quinoxaline-5,7,9,11(8*H*)-tetraones. 819

Lee, Jae Yeol.
Synthesis of 2-Substituted 3,4-Dihydroquinazoline Derivatives *via* Regioselective Addition of a Carbon Nucleophile to a Carbodiimide. 95

Lee, Yong Sup.
Synthesis of 2-Substituted 3,4-Dihydroquinazoline Derivatives *via* Regioselective Addition of a Carbon Nucleophile to a Carbodiimide. 95

Léger, Jean-Michel.
Synthesis of Substituted 1,4-Benzoxazepin-3-one Derivatives. 1093

Lesur, Brigitte.
Synthesis of Substituted 1,4-Benzoxazepin-3-one Derivatives. 1093

Li, Cheng-Sen.
A New Tricyclic 6-7-5-Ring Diterpene from Pliocene Fossil *Tsuga dumosa*. 861

Li, Donghong.
A General and Efficient Method for Synthesis of Functionalized Ethylenediamine Derivatives. 2515
Li, Ganpeng.
Two New Lignan Glycosides from *Schisandra rubriflora*. 1437
Li, Jian Nong.
A Bioactive Alkaloid from the Flowers of *Trollius chinensis*. 1443
Li, Liang.
Two New Lignan Glycosides from *Schisandra rubriflora*. 1437
Li, Sie-Rong.
Synthesis of Benzofurans from Isovanillin *via C*-Propenylation-*O*-vinylation and Ring-closing Metathesis. 1771
Li, Wei.
Two New Naphthalenyl Glucosides and a New Phenylbutyric Acid Glucoside from the Fruit of *Juglans mandshurica*. 1429
Li, Wei.
A New Prenylated Flavone from the Leaves of *Glycyrrhiza uralensis* Cultivated in China. 2091
Li, Yingying.
Green Chemistry Approaches to the Synthesis of 5-Arylidenethiobarbituric Acids by a Condensation Reactions between Aromatic Aldehydes and Thiobarbituric Acid: Comparison of Water, Microwave Irradiation, and Grinding. 583
Liaw, Chih-Chuang.
Two Sesquiterpene-Coumarins from the Roots of *Ferula marmarica*. 2101
Lin, Yu-Li.
Synthesis of Benzofurans from Isovanillin *via C*-Propenylation-*O*-vinylation and Ring-closing Metathesis. 1771
Litaudon, Marc.
Sarcodifurines A and B, Two New Furoquinolines from *Sarcomelicope follicularis*. 2043
Litvinov, Igor A.
Condensation of 4-Hydroxy-2-thiazolines with 1,2-Phenylenediamine as a Novel Effective Route to Thiazolo[3,4-*a*]-quinoxalines. 1783
Liu, Guang-Fei.
Study on Syntheses and Structure of a New Kind of Bisheterocyclic Thiadiazine Derivatives Containing Pyrazolone. 2079
Liu, Lang.
Study on Syntheses and Structure of a New Kind of Bisheterocyclic Thiadiazine Derivatives Containing Pyrazolone. 2079
Liu, Lei.
One-Pot Synthesis of Tetra-substituted Imidazoles on Silica Gel under Microwave Irradiation. 87
Liu, Lijuan.
Two New Naphthalenyl Glucosides and a New Phenylbutyric Acid Glucoside from the Fruit of *Juglans mandshurica*. 1429
Liu, Yan-Zhi.
One-Pot Synthesis of Tetra-substituted Imidazoles on Silica Gel under Microwave Irradiation. 87
Lloung, Matthieu.
Etherificaiton of Heterocyclic Compounds by Nucleophilic Aromatic Substitutions under Green Chemistry Conditions. 297
Lomas, Leticia.
An Efficient Synthesis of 6,6-Dimethyl-2-(4-nitrophenyl)-1-(R-phenyl)-4,5,6,7-tetrahydro-1*H*-4-indolones Using a Solid Sulfated Zirconia as Catalyst. 367
Lo Meo, Paolo.
Diastereoselective Synthesis of Substituted 2-Phenyltetrahydropyrans as Useful Precursors of Aryl *C*-Glycosides *via* Selenoetherification. 681
Loupy, André.
Etherificaiton of Heterocyclic Compounds by Nucleophilic Aromatic Substitutions under Green Chemistry Conditions. 297
Lu, Jun.
Green Chemistry Approaches to the Synthesis of 5-Arylidenethiobarbituric Acids by a Condensation Reactions between Aromatic Aldehydes and Thiobarbituric Acid: Comparison of Water, Microwave Irradiation, and Grinding. 583
Luo, Xiao-Dong.
A New Tricyclic 6-7-5-Ring Diterpene from Pliocene Fossil *Tsuga dumosa*. 861

M

Ma, Chao Mei.
A Bioactive Alkaloid from the Flowers of *Trollius chinensis*. 1443
Ma, Chen.
Synthetic Studies on Isoquinoline Derivatives with Multidrug Resistance (MDR) Modulating Activity. 75
Machida, Minoru.
Synthesis of Fluorescent Derivatization Reagents: Reaction of Isatin with 3-Aryl-7-diethylaminocoumarins and Their

Fluorescent Properties. 1083

Madsen, Robert.

Formation of a Sixteen-membered Ring by Condensation of *N,N'*-Dimesityl-propane-1,3-diamine with Triethyl Orthoformate and Ammonium Tetrafluoroborate. 2051

Maeda, Minoru.

Bipyrrole Derivatives as New DNA-Minor Groove Binders. 29

Maekawa, Kei.

A Novel Ring-opening Reaction of (*Z*)-2-Methyl-4-arylmethylene-5(4*H*)-oxazolone Derivatives with Acylhydrazines. 1273

Majumdar, Krishna C.

Formation of Five- and Six-membered Heterocyclic Rings by Radical Cyclization. 1903

Malancona, Savina.

Iodoenolcyclization of 2-Allyl Substituted β-Keto Esters under Thermodynamic Conditions. 1573

Malik, Abdul.

Lipoxygenase Inhibiting Flavonoids from *Indigofera hetrantha*. 359

Malik, Abdul.

Iridoid Galactosids and a Benzofuran Type Sesquiterpene from *Buddleja crispa*. 1875

Mamedov, Vakhid A.

Condensation of 4-Hydroxy-2-thiazolines with 1,2-Phenylenediamine as a Novel Effective Route to Thiazolo[3,4-*a*]-quinoxalines. 1783

Manta, Eduardo.

Use of Deoxo-Fluor for Double Cyclization to Bis-thiazolines. Limitations of This Agent for the Synthesis of Oxazolines. 773

Marković, Rade.

Sequential Bromination-Rearrangement of Push-Pull Thiazolidines Induced by Pyridinium Hydrobromide Perbromide under Homogenous Reaction Conditions. 851

Marque, Sylvain.

Etherificaiton of Heterocyclic Compounds by Nucleophilic Aromatic Substitutions under Green Chemistry Conditions. 297

Martens, Thierry.

Anodic Oxidation of Tetrahydro-β-carboline Derivatives: Formal Oxidation of Protonated Tertiary Amines. 765

Martínez, Ángeles.

An Efficient Synthesis of 6,6-Dimethyl-2-(4-nitrophenyl)-1-(R-phenyl)-4,5,6,7-tetrahydro-1*H*-4-indolones Using a Solid Sulfated Zirconia as Catalyst. 367

Martínez, Roberto.

An Efficient Synthesis of 6,6-Dimethyl-2-(4-nitrophenyl)-1-(R-phenyl)-4,5,6,7-tetrahydro-1*H*-4-indolones Using a Solid Sulfated Zirconia as Catalyst. 367

Marty, Jean-Daniel.

New Pyridinium Chiral Ionic Liquids. 2033

Marville, Kelly I.

Terpenoid Metabolites of the Marine Octocoral *Eunicea laciniata*. 107

Masamoto, Mina.

Intramolecular Pauson-Khand Reaction of 3-Alkynyl-1-alkylidenecycles: A Convenient Synthesis of [5.n.1.$0^{1,5}$]-Tricyclic Compounds. 1359

Mase, Nobuyuki.

Convenient Synthesis of Pulchellalactam, a CD45 Protein Tyrosine Phosphatase Inhibitor from the Marine Fungus *Corollospora pulchella*, and Its Related Compounds. 1013

Mase, Toshiyasu.

A New Synthetic Route to YM087, an Arginine Vasopressin Antagonist. 1113

Maślankiewicz, Andrzej.

Synthesis of 1-Methyl-3-methylthio- and 1-Methyl-3-methylsulfinyl-4-substituted 2-(1*H*)-Quinolinones. 2329

Mateo, Carmen M.

Kinetics of the Thermal Decomposition of Substituted Cyclic Organic Peroxides in Toluene Solution: Substituent Effects on the Reaction Rates and the Activation Parameters of the Unimolecular Reactions. 2231

Matsubara, Rie.

Two New Bicoumarins from the Leaves of *Murraya exotica*. 2837

Matsuda, Hisashi.

Absolute Stereostructures of Acylated Khellactone-Type Coumarins from *Angelica furcijuga*. 2211

Matsumoto, Keita.

Conformational Analysis of Tricyclic Ketolide TE-802 and Its Analogues. 2057

Matusiak, Grazyna.

Glycolurils. 419

Meden, Anton.

Synthesis of 5-Substituted Ethyl 3-Oxo-2*H*-pyrazolo[4,3-*c*]pyridine-7-carboxylates. 609

Mereiter, Kurt.

1,3-Dipolar Cycloaddition Reactions to Galanthamine Nitrone: An Entry to 4a,5,9,10-Tetrahydro-6*H*,14a*H*-benzofuro[3a,3,2-*ef*]isoxazolo[3,2-*a*][2]benzazepines. 2217

Mérour, Jean-Yves.

Synthesis of Substituted 1,4-Benzoxazepin-3-one Derivatives. 1093

Miklós, Ferenc.

Preparation and Structure of *Diexo*-Oxanorbornane-fused 1,3-Heterocycles. 63

Minami, Masaru.

Synthesis of Fluorescent Derivatization Reagents: Reaction of Isatin with 3-Aryl-7-diethylaminocoumarins and Their Fluorescent Properties. 1083

Mingotaud, Christophe.

New Pyridinium Chiral Ionic Liquids. 2033

Minoura, Katsuhiko.

Leptosins O-S, Cytotoxic Metabolites of a Strain of *Leptosphaeria* Sp. Isolated from a Marine Alga. 641

Mintas, Mladen.

Synthesis of the Novel Bicyclic Oxepinopyrimidine and Fluorinated Pyrrolidinopyrimidines. 2523

Mishra, Anil K.

KF-Alumina Immobilized in Ionic Liquids: A Novel Heterogeneous Base for Heterocyclization of Alkylsulfanylphenylamines into 1,4-Benzothiazine. 1057

Mito, Mitsumasa.

Direct Conversion of 2-Acetamido-2-deoxysugars to 1,2-Oxazoline Derivatives by Dehydrative Cyclization in Water. 1531

Miura, Tsuyoshi.

Synthesis of CMP-sialic Acid Mimics That Have 5-Fluorouracil for Cytosine and the C-Terminal's Peptide Bond for the Phosphate Group: Targeting Inhibitors of Sialyltransferases. 779

Miura, Yoshinori.

Preparation and Optical Resolution of a New Helical Lactone Carrying the 2,8-Dioxabicyclo[3.3.0]octane Ring System. 137

Miyake, Hideaki.

Characterization of a 3,4-Dihydro-1,3,4-triphosphacyclopenta[*a*]indene as an Isomer of a Mes*-substituted 1,3,6-Triphosphafulvene (Mes* = 2,4,6-*t*-$Bu_3C_6H_2$). 2591

Miyamoto, Kensuke.

Isolation and Identification of Phototropism-regulating Substances Benzoxazinoids from Maize Coleoptiles. 2707

Miyamoto, Rika.

Studies of Isoindoles. 12. A Structural Revision of the 1:2 Mannich Type Condensation Reaction Product Formed from *o*-Phthalaldehyde and Substituted Aniline. 1267

Miyauchi, Rie N.

Practical Synthesis of DQ-113, a New Quinolone Antibacterial Agent, by Using the Intramolecular Horner-Wadsworth-Emmons Reaction. 699

Miyazaki, Michiko.

Syntheses of 1,2,3,4,6,7,12,12b-Octahydroindolo[2,3-*a*]-quinolizine and Harmicine Using a Chiral 1-Allyl-1,2,3,4-tetrahydro-β-carboline as the Starting Material. 655

Miyazawa, Masahiro.

Palladium(II)-catalyzed Stereocontrolled Cyclization *via* Hemiacetal Intermediates: Total Synthesis of 5-Epi-prelactone C. 1017

Mizumoto, Sachiko.

Convenient Synthesis of Pulchellalactam, a CD45 Protein Tyrosine Phosphatase Inhibitor from the Marine Fungus *Corollospora pulchella*, and Its Related Compounds. 1013

Moderhack, Dietrich.

Tetrazolium *N*-Aminides. 2605

Mohammadi, Ali A.

A Simple and Efficient Synthesis of New 6-Arylimino-6*H*-indolo[2,1-*b*]quinazolin-12-ones under Microwave Irradiation. 791

Mohammadi, Ali A.

Microwave-assisted One-Pot Three Component Synthesis of Some New 4(3*H*)-Quinazolinone Derivatives. 1417

Mohammadi, Ali A.

$KAl(SO_4)_2{\cdot}12H_2O$: An Efficient Catalyst for the Stereoselective Synthesis of *cis*-Isoquinolonic Acids. 2013

Mohammadi, Ali A.

Three Component Synthesis of Some γ-Spiroiminolactones under Microwave-assisted Solvent-free Conditions. 2225

Mohammadizadeh, Mohammad R.

A Simple and Efficient Synthesis of New 6-Arylimino-6*H*-indolo[2,1-*b*]quinazolin-12-ones under Microwave Irradiation. 791

Mohammadizadeh, Mohammad R.

$KAl(SO_4)_2{\cdot}12H_2O$: An Efficient Catalyst for the Stereoselective Synthesis of *cis*-Isoquinolonic Acids. 2013

Mohammadizadeh, Mohammad R.

Three Component Synthesis of Some γ-Spiroiminolactones under Microwave-assisted Solvent-free Conditions. 2225

Mojzych, Mariusz.

Synthesis of Functionalized 1*H*-Pyrazolo[4,3-*e*][1,2,4]-triazines and Their Fused Derivatives *via Ipso*-Substitution of Methylsulfonyl Group with *O*-, *N*-, *S*- and *C*-Nucleophiles. 1829

Molteni, Giorgio.

Synthesis of the New Pyrazolo[4,3-*c*]pyrrolizine Skeleton *via* Intramolecular Nitrilimine Cycloaddition. 1423

Molteni, Giorgio.

Thermal Behavior of Dipolarophile-containing 2-Azidocarbonylpyrroles and -indoles. 1645

Monforte, Pietro.

Synthesis of New Potential HIV-1 Integrase Inhibitors. 2727

Montesano, Verónica.

Synthesis of *N*-Allyl- and *N*-Propadienylacridones Using Phase-Transfer Catalysis. 23

Morales-Ríos, Martha S.

Synthesis of Isotope Labeled Me(*3a*)-^{13}C-Physostigmine and Debromoflustramine B. 1131

Morán, Joaquín R.

A Xanthone-based Macrocyclic Receptor and Its Possible Applications. 2465

Mora-Pérez, Yolanda.

Synthesis of Isotope Labeled Me(*3a*)-^{13}C-Physostigmine and Debromoflustramine B. 1131

Morikawa, Osamu.

Reactions of 5-Hydroxymethyl-1*H*-indole-4,7-dione with Enamines for the First Construction of 1*H*,5*H*-Pyrano[3,4-*f*]-indole-4,9-dione Derivatives. 1679

Morikawa, Toshio.

Absolute Stereostructures of Acylated Khellactone-Type Coumarins from *Angelica furcijuga*. 2211

Morimoto, Shigeo.

Conformational Analysis of Tricyclic Ketolide TE-802 and Its Analogues. 2057

Morimoto, Toshiaki.

Enantioselective Hydrogenation of 3,4-Dihydro-β-carbolines Catalyzed by Ir Complexes of Diphosphine. 2097

Morita, Hiroshi.

Two New Sesquiterpene Pyridine Alkaloids from *Maytenus chuchuhuasca*. 1891

Morita, Yasumasa.

An Acylated Pelargonidin 3-Sophoroside from the Pale-brownish Red Flowers of *Ipomoea nil*. 1449

Motoyoshiya, Jiro.

Chemiluminiescent Autoxidation of α-Silyl Carbanions Derived from 9-Silyl-10-methylacridanes. 1667

Mukae, Katsuya.

Preparation and Optical Resolution of a New Helical Lactone Carrying the 2,8-Dioxabicyclo[3.3.0]octane Ring System. 137

Mukaiyama, Teruaki.

A New Method for the Preparation of Nitrogen-containing Heterocycles Using Diphenylsulfonium Triflates. 2813

Mukherjee, Chandrani.

An Efficient Synthesis of Benzene Fused Six-, Seven- and Eight-membered Rings Containing Nitrogen and Sulfur by Benzyne Ring Closure Reaction. 2309

Mukhopadhyay, Partha P.

Formation of Five- and Six-membered Heterocyclic Rings by Radical Cyclization. 1903

Muñiz, Francisco M.

A Xanthone-based Macrocyclic Receptor and Its Possible Applications. 2465

Murakami, Yasuoki.

A Study of Structure and Dynamics of Prochiral N-C Axis for Asymmetric Transition Metal Catalysis, with Phosphorous-31 (V) by 3D NMR Spectroscopy Combined with MO Calculation. 1345

Murakami, Yoshiko.

Synthesis of 2-Chloro-8-(2-pyridyl)-1-azaazulene and Its Metal Complexes. 2341

Murata, Hiroko.

New Resveratrol Dimer Glucosides and Trimers in Stem and Root of *Welwitschia mirabilis*. 1821

Murata, Hiroko.

New Neolignan and Phenylpropanoid Glycosides in *Juniperus communis* var. *depressa*. 2573

Murata, Jin.

A New Resveratrol Hexamer from *Upuna borneensis*. 129

Murata, Jin.

New Neolignan and Phenylpropanoid Glycosides in *Juniperus communis* var. *depressa*. 2573

Muto, Ryo.

Facile Methods for Preparation of Thiazolopyridine and Tetrahydrothiazolopyridine Derivatives. 1555

N

Nagahara, Takayasu.

Facile Methods for Preparation of Thiazolopyridine and Tetrahydrothiazolopyridine Derivatives. 1555

Nagamatsu, Kentaro.

Some Reactions of 3-Phenyl-8-triphenylphosphoimino-1-azaazulene. 809

Nagamatsu, Tomohisa.

New Synthesis and Biologically Active Molecular Design of Deazapteridine-Steroid Hybrid Compounds. 9

Nagamochi, Masatoshi.

Facile Methods for Preparation of Thiazolopyridine and Tetrahydrothiazolopyridine Derivatives. 1555

Nagasaka, Tatsuo.

Synthesis of Optically Active Tetrahydro-3-benzazepine-2-carboxylic Acid Derivatives *via* the Ring Expansion Reaction of Isoquinolines and Enzymatic Resolution. 17

Nagata, Kazuhiro.

Syntheses of 1,2,3,4,6,7,12,12b-Octahydroindolo[2,3-*a*]-

quinolizine and Harmicine Using a Chiral 1-Allyl-1,2,3,4-tetrahydro-β-carboline as the Starting Material. 655

Nagata, Kazuhiro.

Synthesis of 2-Arylbenzothiazoles and Imidazoles Using Scandium Triflate as a Catalyst for Both a Ring Closing and an Oxidation Steps. 2769

Nagata, Tsutomu.

Facile Methods for Preparation of Thiazolopyridine and Tetrahydrothiazolopyridine Derivatives. 1555

Nagy, Ildikó.

New Preparative Route to Hetaryldienes and Azadienes. 2287

Naitoh, Ruri.

Formation of 3-Pyrrolin-2-ones *via* 5-*Endo-trig* Cyclization. 1009

Nakahara, Shinji.

Synthesis of CMP-sialic Acid Mimics That Have 5-Fluorouracil for Cytosine and the C-Terminal's Peptide Bond for the Phosphate Group: Targeting Inhibitors of Sialyltransferases. 779

Nakahara, Shinsuke.

Synthesis of Mimosamycin and 5,8-Dihydroxy-4,7-dimethoxy-2,6-dimethylisoquinolinium Iodide. 1849

Nakahara, Shinsuke.

Synthesis of Cribrostatin 6. 2355

Nakamura, Shigeru.

Syntheses of 1,2,3,4,6,7,12,12b-Octahydroindolo[2,3-*a*]quinolizine and Harmicine Using a Chiral 1-Allyl-1,2,3,4-tetrahydro-β-carboline as the Starting Material. 655

Nakamura, Yayoi.

Formation of 3-Pyrrolin-2-ones *via* 5-*Endo-trig* Cyclization. 1009

Nakamura, Yohoko.

Formation of 3-Pyrrolin-2-ones *via* 5-*Endo-trig* Cyclization. 1009

Nakanishi, Tsutomu.

New Neolignan and Phenylpropanoid Glycosides in *Juniperus communis* var. *depressa*. 2573

Nakata, Tadashi.

Synthesis of Mycalamide Analogs. 2111

Nakatani, Munehiro.

Three New Mexicanolides from the Stem Bark of *Swietenia mahogani* JACQ. 389

Nakaya, Ken-ichi.

A New Resveratrol Hexamer from *Upuna borneensis*. 129

Nakaya, Ken-ichi.

New Resveratrol Dimer Glucosides and Trimers in Stem and Root of *Welwitschia mirabilis*. 1821

Namgoong, Kwon.

Synthesis of 2,3,8-Trisubstituted 7*H*-Isoindolo[5,6-*g*]quinoxaline-5,7,9,11(8*H*)-tetraones. 819

Namyslo, Jan C.

Chemistry of Polyhalogenated Nitrobutadienes, 1: A New Synthesis of Perfunctionalized 3-Amino-4-nitrothiophenes 1281

Narantsetseg, Magsarjav.

Palladium(II)-catalyzed Stereocontrolled Cyclization *via* Hemiacetal Intermediates: Total Synthesis of 5-Epi-prelactone C. 1017

Narui, Takao.

A Novel Secondary Metabolite from *Lethariella sernanderi*. 1023

Nassar, Mahmoud I.

Two Sesquiterpene-Coumarins from the Roots of *Ferula marmarica*. 2101

Natsutani, Itaru.

Synthesis of N_a-Demethyl-20-deethylsuaveoline, the Structure Proposed for Sellowiine. 2845

Nawaz, Sarfraz Ahmad.

Lipoxygenase Inhibiting Flavonoids from *Indigofera hetrantha*. 359

Naya, Shin-ichi.

Novel Synthesis, Properties, and Structural Characteristics of 1,6-Dialkylpyrimido[5,4-*e*][n](2,4)pyridinophane-5,7(1*H*,6*H*)-diones. 319

Naya, Shin-ichi.

Synthesis, Properties, and Redox Ability of Optically Active 3-Carbamoyl-1,6-dimethylpyrimido[4,5-*c*]pyridazine-5,7-(1*H*,6*H*)-dione and Related Pyrimido-annulated Pyridine Analogues. 1393

Nedjar-Kolli, Bellara.

Synthesis and Reactivity of a New Pyranoquinoxaline. 1409

Negrón, Guillermo.

An Efficient Synthesis of 6,6-Dimethyl-2-(4-nitrophenyl)-1-(R-phenyl)-4,5,6,7-tetrahydro-1*H*-4-indolones Using a Solid Sulfated Zirconia as Catalyst. 367

Nesprías, Rosa K.

Kinetics of the Thermal Decomposition of Substituted Cyclic Organic Peroxides in Toluene Solution: Substituent Effects on the Reaction Rates and the Activation Parameters of the Unimolecular Reactions. 2231

Nguyen, Quynh-Anh.

Synthesis and Spectroscopic Differentiation of 2- and 4-Alkoxythiotetronic Acids. 519

Nicholas, Kenneth M.

Synthesis of 1*H*-Indazoles by Reductive Cyclization of *o*-Nitro-ketoximes. 373

Nieger, Martin.
Thiazolidinone-annulated Pyrrolobenzodiazepines. Syntheses and Properties of a New Ring System. 2851
Nikaido, Tamotsu.
Two New Naphthalenyl Glucosides and a New Phenylbutyric Acid Glucoside from the Fruit of *Juglans mandshurica*. 1429
Nikaido, Tamotsu.
A New Prenylated Flavone from the Leaves of *Glycyrrhiza uralensis* Cultivated in China. 2091
Nikitchenko, Viktor M.
Synthesis of 5*H*-Pyrazolo[4,3-*c*]quinolines. 1883
Nishida, Norihisa.
Absolute Stereostructures of Acylated Khellactone-Type Coumarins from *Angelica furcijuga*. 2211
Nishii, Yoshinori.
Chemiluminescent Autoxidation of α-Silyl Carbanions Derived from 9-Silyl-10-methylacridanes. 1667
Nishimura, Jun.
Synthesis and Complexing Properties of Crownophanes Possessing Carboxyl Group. 333
Nishimura, Tae.
Reaction of 3,5-Dicyanoisoxazoles with Nucleophiles. 1659
Nishino, Hoyoku.
Two New Bicoumarins from *Clausena excavata*. 115
Nishino, Yuuichi.
A Novel Secondary Metabolite from *Lethariella sernanderi*. 1023
Nishitani, Kiyoshi.
Investigation of Intramolecular Pauson-Khand Reaction of 2-Aryl-1,6- and 1-Methyl-1,7-enynes (*exo*-Olefins) and 1-Phenyl-1-octen-7-yne (*endo*-Olefin). 827
Nishitani, Kiyoshi.
Intramolecular Pauson-Khand Reaction of 3-Alkynyl-1-alkylidenecycles: A Convenient Synthesis of [5.n.1.0^{1,5}]-Tricyclic Compounds. 1359
Nishitani, Yasuhiro.
A New Method for Regioselective Synthesis of a Broad-Spectrum Parenteral S-3578-Related Cephalosporin Bearing an Imidazo[4,5-*b*]pyridinium Derivative at C-3'. 1757
Nishiuchi, Kenji.
Studies of Isoindoles. 12. A Structural Revision of the 1:2 Mannich Type Condensation Reaction Product Formed from *o*-Phthalaldehyde and Substituted Aniline. 1267
Nishiwaki, Nagatoshi.
Reaction of 3,5-Dicyanoisoxazoles with Nucleophiles. 1659
Nishiyama, Shigeru.
Synthetic Studies on Azaspiracid, a Novel Shellfish Poison: Attempts to Construct the ABCD Ring System. 539
Nishiyama, Shigeru.
Synthesis of the ABCD Ring System of Azaspiracid, a Marine Poison from *Mytilus edulis*. 885
Nishiyama, Shigeru.
Synthesis of (-)-Tuliparin B Utilizing 2-Bromo-1-alkenes Conveniently Synthesized from the 3-*O*-Substituted 1,2-Dibromoalkane System by Regioselective Elimination. 2349
Nishizono, Naozumi.
Synthesis of Fluorescent Derivatization Reagents: Reaction of Isatin with 3-Aryl-7-diethylaminocoumarins and Their Fluorescent Properties. 1083
Nitta, Makoto.
Novel Synthesis, Properties, and Structural Characteristics of 1,6-Dialkylpyrimido[5,4-*e*][n](2,4)pyridinophane-5,7(1*H*,6*H*)-diones. 319
Nitta, Makoto.
Synthesis, Properties, and Redox Ability of Optically Active 3-Carbamoyl-1,6-dimethylpyrimido[4,5-*c*]pyridazine-5,7-(1*H*,6*H*)-dione and Related Pyrimido-annulated Pyridine Analogues. 1393
Niwa, Masatake.
The Asymmetric Synthesis of Linear Dihydropyranocoumarins for Alzheimer's Disease. 271
Niwa, Masatake.
Two Lignan Glycosides from *Vitis thunbergii*. 871
Nobuhiro, Junko.
Synthesis of 5-Methylindole-4,7-quinone through a New Construction of the Functionalized Indole Ring Based on the Allene-mediated Electrocyclic Reaction Involving the Pyrrole [*b*]-Bond. 1765
Noguchi, Kazuharu.
Synthesis of CMP-sialic Acid Mimics That Have 5-Fluorouracil for Cytosine and the C-Terminal's Peptide Bond for the Phosphate Group: Targeting Inhibitors of Sialyltransferases. 779
Noguchi, Masato.
Direct Conversion of 2-Acetamido-2-deoxysugars to 1,2-Oxazoline Derivatives by Dehydrative Cyclization in Water. 1531
Nomura, Manami.
Electrophilic Reaction of *N*-Lewis Acid and *N*-Oxide Lewis Acid Complexes of 4-Methylpyridines and Their *N*-Oxides through Base-induced Deprotonation. 2863
Nomura, Takashi.
A New Method for Regioselective Synthesis of a Broad-

Spectrum Parenteral S-3578-Related Cephalosporin Bearing an Imidazo[4,5-*b*]pyridinium Derivative at C-3'. 1757

Norberg, Bernadette.

Allylic Dehydration, Retro-Pinacol, Pinacol-like and Enamide Reactions: Synthesis of New Isoquinolines. 1855

Noreiks, Matthias.

Tetrazolium *N*-Aminides. 2605

Norris, Peter.

Rapid Access to Glucopyranosyl-1,2,3-triazoles *via* Cu(I)-Catalyzed Reactions in Water. 2719

Nöth, Heinrich.

Stereoselective Synthesis of 1-Substituted 1,2,3,4-Tetrahydro-β-carbolines by Asymmetric Electrophilic α-Amidoalkylation Reactions. 2747

Noto, Renato.

Diastereoselective Synthesis of Substituted 2-Phenyltetrahydropyrans as Useful Precursors of Aryl *C*-Glycosides *via* Selenoetherification. 681

Nozaki, Kenji.

Synthesis of CMP-sialic Acid Mimics That Have 5-Fluorouracil for Cytosine and the C-Terminal's Peptide Bond for the Phosphate Group: Targeting Inhibitors of Sialyltransferases. 779

Nozawa, Koohei.

The Absolute Structures of Dihydroepiheveadride, as Characteristic Antifungal Agent against Filamentous Fungi, and Its Related Compounds from Unidentified Fungus IFM 52672. 2581

Nozawa, Yoshinori.

A New Resveratrol Hexamer from *Upuna borneensis*. 129

Numata, Atsushi.

Leptosins O-S, Cytotoxic Metabolites of a Strain of *Leptosphaeria* Sp. Isolated from a Marine Alga. 641

Numata, Atsushi.

Gliocladins A - C and Glioperazine ; Cytotoxic Dioxo- or Trioxopiperazine Metabolites from a *Gliocladium* Sp. Separated from a Sea Hare. 1123

Nurkhametova, Ilsiyar Z.

Condensation of 4-Hydroxy-2-thiazolines with 1,2-Phenylenediamine as a Novel Effective Route to Thiazolo[3,4-*a*]-quinoxalines. 1783

Nyerges, Miklós.

Construction of Pyrrolo[3,2-*c*]quinolines – Recent Advances in the Synthesis of the Martinelline Alkaloids. 1685

O

Oda, Kazuaki.

Synthesis of Fluorescent Derivatization Reagents: Reaction of Isatin with 3-Aryl-7-diethylaminocoumarins and Their

Fluorescent Properties. 1083

O'Dell, David K.

Synthesis of 1*H*-Indazoles by Reductive Cyclization of *o*-Nitro-ketoximes. 373

Odo, Yuka.

Efficient Photochemical Oxetane Formation from 2-Pyrones and Benzophenones in the Solid State. 1541

Ohara, Takafumi.

A New Method for Regioselective Synthesis of a Broad-Spectrum Parenteral S-3578-Related Cephalosporin Bearing an Imidazo[4,5-*b*]pyridinium Derivative at C-3'. 1757

Ohba, Masashi.

Synthesis of N_a-Demethyl-20-deethylsuaveoline, the Structure Proposed for Sellowiine. 2845

Ohgiya, Tadaaki.

Synthesis of (-)-Tuliparin B Utilizing 2-Bromo-1-alkenes Conveniently Synthesized from the 3-*O*-Substituted 1,2-Dibromoalkane System by Regioselective Elimination. 2349

Ohgushi, Teruki.

Absolute Stereostructures of Acylated Khellactone-Type Coumarins from *Angelica furcijuga*. 2211

Ohkita, Masakazu.

Synthesis and Characterization of Hexakis(4-pyridylethynyl)benzene and Hexakis(5-pyrimidylethynyl)benzene. 1537

Ohkita, Masakazu.

Synthesis and Properties of Pyrazino[2,3-*g*]quinoxaline Derivatives: Blue and Green Fluorescent Materials with Electron Affinity. 2207

Ohno, Kosei.

Synthesis of Fluorescent Derivatization Reagents: Reaction of Isatin with 3-Aryl-7-diethylaminocoumarins and Their Fluorescent Properties. 1083

Ohsawa, Akio.

Syntheses of 1,2,3,4,6,7,12,12b-Octahydroindolo[2,3-*a*]-quinolizine and Harmicine Using a Chiral 1-Allyl-1,2,3,4-tetrahydro-β-carboline as the Starting Material. 655

Ohsawa, Akio.

Synthesis of 2-Arylbenzothiazoles and Imidazoles Using Scandium Triflate as a Catalyst for Both a Ring Closing and an Oxidation Steps. 2769

Ohyabu, Takayo.

Characterization of the Oxidation Products of (-)-Epigallo-

catechin Gallate, a Bioactive Tea Polyphenol, on Incubation in Neutral Solution. 1547

Ohyanagi, Kazuo.
Reaction of 2-Benzotelluropyrylium Salts with Organocopper Reagents: Introduction of a Carbon Functional Group at the C-1 Position of the Telluropyrylium Cation Ring. 309

Oishi, Etsuo.
Reaction of [1,4]Benzodioxinopyridazines with Sodium Methoxide and Amines. 591

Okada, Akihiro.
Synthesis of Mycalamide Analogs. 2111

Okada, Emi.
Formation of 3-Pyrrolin-2-ones *via* 5-*Endo-trig* Cyclization. 1009

Okamura, Hiroaki.
Three New Mexicanolides from the Stem Bark of *Swietenia mahogani* JACQ. 389

Okazaki, Yutaka.
Synthesis and Properties of Pyrazino[2,3-*g*]quinoxaline Derivatives: Blue and Green Fluorescent Materials with Electron Affinity. 2207

Oliva, Ana I.
A Xanthone-based Macrocyclic Receptor and Its Possible Applications. 2465

Onnis, Valentina.
Synthesis and Structural Studies of 3-Acylamino-4-amino-2,3-dihydro-2-iminothiazole-5-carboxylates and 4-Acylhydrazino-2-aminothiazole-5-carboxylates. 259

Ono, Katsuhiko.
Synthesis and Properties of Pyrazino[2,3-*g*]quinoxaline Derivatives: Blue and Green Fluorescent Materials with Electron Affinity. 2207

Orelli, Liliana R.
1-Aryl-3-alkyl-1,4,5,6-tetrahydropyrimidinium Salts. Part 2. Reactions with Nucleophiles. 2557

Osanai, Ken.
Facile Methods for Preparation of Thiazolopyridine and Tetrahydrothiazolopyridine Derivatives. 1555

Ozawa, Hidefumi.
Synthesis of Optically Active Tetrahydro-3-benzazepine-2-carboxylic Acid Derivatives *via* the Ring Expansion Reaction of Isoquinolines and Enzymatic Resolution. 17

P

Pace, Andrea.
Fluorinated Heterocyclic Compounds. A Photochemical Approach to a Synthesis of Fluorinated Quinazolin-4-ones. 1619

Pace, Andrea.
Molecular Rearrangements of 1-Oxa-2-azoles as an Expedient Route to Fluorinated Heterocyclic Compounds. 2627

Pang, Huey-Shen.
Conodusarine, a New Biologically Active Bisindole Alkaloid from *Tabernaemontana divaricata*. 845

Pardo, Mercedes.
Functionalization of the Ring A in Some Benzo[*g*]pyridazino[1,2-*b*]phthalazine-6,13-dione Derivatives Related to Anthracyclinones. 1299

Park, Hyun-Sun.
New Cytotoxic Norditerpene Dilactones from Leaves of *Podocarpus macrophyllus* var. *maki*. 347

Parnes, Jason S.
Novel 3-Aminothieno[2,3-*b*]pyridine Synthesis *via* a Silicon-directed Anionic Cyclization. 2199

Partington, Steven M.
Synthesis and Photochromic Properties of Methoxy Substituted 2,2-Diaryl-2*H*-naphtho[1,2-*b*]pyrans. 567

Patrascu, Cosmin.
New Pyridinium Chiral Ionic Liquids. 2033

Paulsen, Andreas L.
Formation of a Sixteen-membered Ring by Condensation of *N,N'*-Dimesityl-propane-1,3-diamine with Triethyl Orthoformate and Ammonium Tetrafluoroborate. 2051

Pavelic, Kresimir.
Synthesis of the Novel Bicyclic Oxepinopyrimidine and Fluorinated Pyrrolidinopyrimidines. 2523

Pei, Yuping.
A New Prenylated Flavone from the Leaves of *Glycyrrhiza uralensis* Cultivated in China. 2091

Pellón, Rolando F.
Synthesis of *N*-Allyl- and *N*-Propadienylacridones Using Phase-Transfer Catalysis. 23

Peng, Bang-Hua.
Study on Syntheses and Structure of a New Kind of Bisheterocyclic Thiadiazine Derivatives Containing Pyrazolone. 2079

Peng, Ling.
Synthesis and Characterization of Potential Photolabeling Probes for Studying the Antiviral Mechanisms of Eicar. 671

Périé, Jacques.
Synthesis and Reactivity of a New Pyranoquinoxaline. 1409

Perillo, Isabel A.
1-Aryl-3-alkyl-1,4,5,6-tetrahydropyrimidinium Salts. Part 2. Reactions with Nucleophiles. 2557
Peszke, Jerzy.
Glycolurils. 419
Petit, Alain.
Etherificaiton of Heterocyclic Compounds by Nucleophilic Aromatic Substitutions under Green Chemistry Conditions. 297
Pibiri, Ivana.
Fluorinated Heterocyclic Compounds. A Photochemical Approach to a Synthesis of Fluorinated Quinazolin-4-ones. 1619
Pibiri, Ivana.
Molecular Rearrangements of 1-Oxa-2-azoles as an Expedient Route to Fluorinated Heterocyclic Compounds. 2627
Piccionello, Antonio Palumbo.
Fluorinated Heterocyclic Compounds. A Photochemical Approach to a Synthesis of Fluorinated Quinazolin-4-ones. 1619
Pisano, Luisa.
Alkali Metal-mediated Synthesis of 1- and 4-Substituted *N*-Alkyl-1,2,3,4-tetrahydroisoquinolines. 401
Pittalis, Mario.
Alkali Metal-mediated Synthesis of 1- and 4-Substituted *N*-Alkyl-1,2,3,4-tetrahydroisoquinolines. 401
Planas, Loïc.
Anodic Oxidation of Tetrahydro-β-carboline Derivatives: Formal Oxidation of Protonated Tertiary Amines. 765
Ponikwar, W.
Stereoselective Synthesis of 1-Substituted 1,2,3,4-Tetrahydro-β-carbolines by Asymmetric Electrophilic α-Amidoalkylation Reactions. 2747
Popova, Galina.
Dendritic Cyclotriphosphazene Derivative with Hexaxis-(alkylazobenzene) Substitution as Photo-sensitive Trigger. 1563
Pospíšil, Jiří.
A Solvent-free Method for Substituted Imidazolidin-4-ones Synthesis. 1165
Potáček, Milan.
A Solvent-free Method for Substituted Imidazolidin-4-ones Synthesis. 1165
Prakash, Om.
Synthesis of Heterocyclic Compounds from the Reactions of Dehydroacetic Acid (DHA) and Its Derivatives. 1193
Prati, Fabio.
Synthesis of *N*-Bridgehead Fused Bicyclic β-Lactams through Organometal-mediated Transformations of 1,2-Dialkenylaziridines. 2495
Pratt, Dominic.
On the Synthesis and Characterization of 3-Arylamino-7-nitro-2*H*-1,4-benzoxazines. 249
Priego, Jaime M.
Synthesis of 2,3-Dihydro-4(1*H*)-quinazolinones. 2019

Q

Qu, Fanqi.
Synthesis and Characterization of Potential Photolabeling Probes for Studying the Antiviral Mechanisms of Eicar. 671

R

Raić-Malić, Silvana.
Synthesis of the Novel Bicyclic Oxepinopyrimidine and Fluorinated Pyrrolidinopyrimidines. 2523
Rakib, El Mostapha.
Synthesis and 1,3-Dipolar Cycloaddition Reactions of New Pyrazolo[1,5,4-*ef*][1,5]bezodiazepines. 1651
Ramírez, Manuel.
An Efficient Synthesis of 6,6-Dimethyl-2-(4-nitrophenyl)-1-(R-phenyl)-4,5,6,7-tetrahydro-1*H*-4-indolones Using a Solid Sulfated Zirconia as Catalyst. 367
Rao, Angela.
Synthesis of New Potential HIV-1 Integrase Inhibitors. 2727
Rao, U. Narasimha.
Facile Synthesis of 4*H*-1,3-Benzoselenazines by the Aryne Reaction. 1067
Raposo, César.
A Xanthone-based Macrocyclic Receptor and Its Possible Applications. 2465
Reddy, Kethiri R.
Transition Metal Complexes in Organic Synthesis, Part 73. Synthetic Routes to Naturally Occurring Furocarbazoles. 2393
Resnyanska, Elizaveta V.
An Interaction of 2-Thiazoleacetonitriles with *N*-(2-Chloroacetyl)anthranilic Acid Ester. 797
Reynolds, William F.
Terpenoid Metabolites of the Marine Octocoral *Eunicea la-*

ciniata. 107

Riaz, Naheed.

Lipoxygenase Inhibiting Flavonoids from *Indigofera hetrantha*. 359

Riedl, Zsuzsanna.

New Preparative Route to Hetaryldienes and Azadienes. 2287

Riela, Serena.

Diastereoselective Synthesis of Substituted 2-Phenyltetrahydropyrans as Useful Precursors of Aryl *C*-Glycosides *via* Selenoetherification. 681

Rigo, Benoît.

Allylic Dehydration, Retro-Pinacol, Pinacol-like and Enamide Reactions: Synthesis of New Isoquinolines. 1855

Risch, Nikolaus.

Star-shaped Threefold Dihydropyridine and Xanthene Derivatives. 2615

Ronzini, Ludovico.

Palladium-catalyzed Cyclocarbonylation of Unsaturated Alcohols and Amines. Chemoselective Synthesis of Heterocycle-substituted γ- and δ-Lactones and Lactams. 1027

Royer, Jacques.

Anodic Oxidation of Tetrahydro-β-carboline Derivatives: Formal Oxidation of Protonated Tertiary Amines. 765

Ruangrungsi, Nijsiri.

A New Pterocarpan from *Erythrina fusca*. 879

Rui, Lei.

One-Pot Synthesis of Tetra-substituted Imidazoles on Silica Gel under Microwave Irradiation. 87

Rykowski, Andrzej.

Synthesis of Functionalized 1*H*-Pyrazolo[4,3-*e*][1,2,4]-triazines and Their Fused Derivatives *via Ipso*-Substitution of Methylsulfonyl Group with *O*-, *N*-, *S*- and *C*-Nucleophiles. 1829

Ryppa, Claudia.

Dodecasubstituted Porphyrins — An Easily Accessible Type of Dendritic Porphyrins with Tunable Properties. 505

S

Saad, Mona M. G.

Three New Mexicanolides from the Stem Bark of *Swietenia mahogani* JACQ. 389

Sagawa, Takashi.

Dendritic Cyclotriphosphazene Derivative with Hexaxis-(alkylazobenzene) Substitution as Photo-sensitive Trigger. 1563

Saifah, Ekarin.

A New Pterocarpan from *Erythrina fusca*. 879

Saijo, Makoto.

Improvement in the Regioselectivity in the Ruthenium-catalyzed Metathesis Reaction of 2-Azabicyclo[2.2.1]hept-5-en-3-one (ABH) with Allyltrimethylsilane. 5

Saito, Katsuhiro.

Synthesis and Properties of Pyrazino[2,3-*g*]quinoxaline Derivatives: Blue and Green Fluorescent Materials with Electron Affinity. 2207

Saito, Norio.

(Delphinidin 3-Gentiobiosyl) (Luteorin 7-Glucosyl) Malonate from the Flowers of *Eichhornia crassipes*. 899

Saito, Norio.

An Acylated Pelargonidin 3-Sophoroside from the Pale-brownish Red Flowers of *Ipomoea nil*. 1449

Saito, Ryota.

Well-divided and pH-Dependent Bimodal Chemiluminescence of 2-Methyl-6-phenyl-8-(4-substituted phenyl)imidazo[1,2-*a*]pyrazin-3(7*H*)-ones Induced by Superoxide Anion. 759

Sakamoto, Shuichi.

A New Synthetic Route to YM087, an Arginine Vasopressin Antagonist. 1113

Sakamoto, Yohko.

A Study of Structure and Dynamics of Prochiral N-C Axis for Asymmetric Transition Metal Catalysis, with Phosphorous-31 (V) by 3D NMR Spectroscopy Combined with MO Calculation. 1345

Sakurai, Tadamitsu.

Selective Phototransformation of Hydroxy-substituted Aromatic Nitrones into *N,N*-Diarylformamide Derivatives Showing a Novel Conformational Isomerism. 241

Sakurai, Tadamitsu.

A Novel Ring-opening Reaction of (*Z*)-2-Methyl-4-arylmethylene-5(4*H*)-oxazolone Derivatives with Acylhydrazines. 1273

Sakurai, Toshihiko.

Dendritic Cyclotriphosphazene Derivative with Hexaxis-(alkylazobenzene) Substitution as Photo-sensitive Trigger. 1563

Sakushima, Akiyo.

Studies of Isoindoles. 12. A Structural Revision of the 1:2 Mannich Type Condensation Reaction Product Formed from *o*-Phthalaldehyde and Substituted Aniline. 1267

Salehi, Hojatollah.

Microwave-assisted One-Pot Synthesis of Trisubstituted

Imidazoles on Solid Support. 1613

Salehi, Peyman.

Microwave-assisted One-Pot Three Component Synthesis of Some New 4(3*H*)-Quinazolinone Derivatives. 1417

Samajdar, Susanta.

Facile Synthesis of Biologically Active Heterocycles by Indium-induced Reactions of Aromatic Nitro Compounds in Aqueous Ethanol. 283

Santos-Sánchez, Norma F.

Synthesis of Isotope Labeled Me(*3a*)-^{13}*C*-Physostigmine and Debromoflustramine B. 1131

Sanz, Ana M.

Functionalization of the Ring A in Some Benzo[*g*]pyridazino[1,2-*b*]phthalazine-6,13-dione Derivatives Related to Anthracyclinones. 1299

Sasaki, Shigeki.

Bipyrrole Derivatives as New DNA-Minor Groove Binders. 29

Sashida, Haruki.

Reaction of 2-Benzotelluropyrylium Salts with Organocopper Reagents: Introduction of a Carbon Functional Group at the C-1 Position of the Telluropyrylium Cation Ring. 309

Satake, Motoyoshi.

Two New Sesquiterpene Pyridine Alkaloids from *Maytenus chuchuhuasca*. 1891

Sathunuru, Ramadas.

Facile Synthesis of 4*H*-1,3-Benzoselenazines by the Aryne Reaction. 1067

Sathunuru, Ramadas.

Facile Synthesis of 5-Acyl-2-amino-1,3-thiazole by the Reaction of Thiaazadienes with α-Halo Ketones. 2805

Sato, Hiroto.

Synthesis of Optically Active Tetrahydro-3-benzazepine-2-carboxylic Acid Derivatives *via* the Ring Expansion Reaction of Isoquinolines and Enzymatic Resolution. 17

Satoh, Hirohito.

Reaction of 2-Benzotelluropyrylium Salts with Organocopper Reagents: Introduction of a Carbon Functional Group at the C-1 Position of the Telluropyrylium Cation Ring. 309

Satoh, Hiroshi.

Investigation of Intramolecular Pauson-Khand Reaction of 2-Aryl-1,6- and 1-Methyl-1,7-enynes (*exo*-Olefins) and 1-Phenyl-1-octen-7-yne (*endo*-Olefin). 827

Savchenko, Timur I.

Synthesis of 5*H*-Pyrazolo[4,3-*c*]quinolines. 1883

Sawa, Ryuichi.

A New Resveratrol Hexamer from *Upuna borneensis*. 129

Scarone, Laura.

Use of Deoxo-Fluor for Double Cyclization to Bis-thiazolines. Limitations of This Agent for the Synthesis of Oxazolines. 773

Schmidt, Andreas.

Thiazolidinone-annulated Pyrrolobenzodiazepines. Syntheses and Properties of a New Ring System. 2851

Sealy, R. Lynn.

Terpenoid Metabolites of the Marine Octocoral *Eunicea laciniata*. 107

Seguin, Elisabeth.

Sarcodifurines A and B, Two New Furoquinolines from *Sarcomelicope follicularis*. 2043

Seki, Hiroko.

Acylated Peonidin 3-Rutinoside-5-glucosides from Commercial Petunia Cultivars with Pink Flowers. 509

Sekita, Setsuko.

Two New Sesquiterpene Pyridine Alkaloids from *Maytenus chuchuhuasca*. 1891

Sekiyama, Tomoko.

A Convenient Synthesis of Trifluoromethylpyridazines from 3-Hydrazono-1,1,1-trifluoroalkan-2-ones. 707

Sellanes, Diver.

Use of Deoxo-Fluor for Double Cyclization to Bis-thiazolines. Limitations of This Agent for the Synthesis of Oxazolines. 773

Senge, Mathias O.

Dodecasubstituted Porphyrins — An Easily Accessible Type of Dendritic Porphyrins with Tunable Properties. 505

Seo, Jae Yong.

Synthesis of Aromatic Ring Fused Pyrrole Derivatives by Palladium-catalyzed Annulation of *o*-Iodoarylamines with Allyl Acetate. 631

Sermek, Draginja Mrvoš.

Synthesis of the Novel Bicyclic Oxepinopyrimidine and Fluorinated Pyrrolidinopyrimidines. 2523

Serra, Gloria.

Use of Deoxo-Fluor for Double Cyclization to Bis-thiazolines. Limitations of This Agent for the Synthesis of Oxazolines. 773

Shen, Yue Mao.

New *O*-Terpenoidal Coumarins from *Clausena excavata*. 2087

Shenoy, Gautham.

Synthesis and Spectroscopic Differentiation of 2- and 4-Alkoxythiotetronic Acids. 519

Sheu, Jyh-Horng.

Briaexcavatolide W, a New Diterpenoid from *Briareum*

excavatum. 895

Shibata, Kazuhiko.

Palladium(II)-mediated Nucleophilic Cyanation of 4-Substituted Quinoline 1-Oxide in the Presence of Trimethylsilyl Cyanide and an Oxidant. 2859

Shibata, Kazuhiko.

Electrophilic Reaction of *N*-Lewis Acid and *N*-Oxide Lewis Acid Complexes of 4-Methylpyridines and Their *N*-Oxides through Base-induced Deprotonation. 2863

Shibata, Yoshihiro.

Bipyrrole Derivatives as New DNA-Minor Groove Binders. 29

Shibayama, Kohtaro.

Synthesis, Properties, and Redox Ability of Optically Active 3-Carbamoyl-1,6-dimethylpyrimido[4,5-*c*]pyridazine-5,7-(1*H*,6*H*)-dione and Related Pyrimido-annulated Pyridine Analogues. 1393

Shigemori, Hideyuki.

Isolation and Identification of Phototropism-regulating Substances Benzoxazinoids from Maize Coleoptiles. 2707

Shigihara, Atsushi.

(Delphinidin 3-Gentiobiosyl) (Luteorin 7-Glucosyl) Malonate from the Flowers of *Eichhornia crassipes*. 899

Shigihara, Atsushi.

An Acylated Pelargonidin 3-Sophoroside from the Pale-brownish Red Flowers of *Ipomoea nil*. 1449

Shilabin, Abbas Gholipour.

Thiazolidinone-annulated Pyrrolobenzodiazepines. Syntheses and Properties of a New Ring System. 2851

Shimizu, Hitoshi.

Regioselective Cleavage of Trisubstituted Epoxy-Linkage Using Lithium Trialkylborohydride Reagents: A New Route to the Key Intermediate of Maxacalcitol. 1335

Shimizu, Kazuki.

Regioselective Cleavage of Trisubstituted Epoxy-Linkage Using Lithium Trialkylborohydride Reagents: A New Route to the Key Intermediate of Maxacalcitol. 1335

Shimo, Tetsuro.

Efficient Photochemical Oxetane Formation from 2-Pyrones and Benzophenones in the Solid State. 1541

Shimomura, Youji.

Selective Recognition of Rotaxanes for an Alkali Metal Ion. 2713

Shimotsu, Yasuhiko.

Convenient Synthesis of Pulchellalactam, a CD45 Protein Tyrosine Phosphatase Inhibitor from the Marine Fungus *Corollospora pulchella*, and Its Related Compounds. 1013

Shin, Chung-gi.

Useful Synthesis of 2,3,6-Tri- and 2,3,5,6-Tetrasubstituted Pyridine Derivatives from Aspartic Acid. 2735

Shin, Dong-Soo.

Synthetic Studies on Isoquinoline Derivatives with Multidrug Resistance (MDR) Modulating Activity. 75

Shinoda, Koichi.

Acylated Peonidin 3-Rutinoside-5-glucosides from Commercial Petunia Cultivars with Pink Flowers. 509

Shiromoto, Kazuyuki.

New Synthesis and Biologically Active Molecular Design of Deazapteridine-Steroid Hybrid Compounds. 9

Shirosaki, Tomohiro.

Dendritic Cyclotriphosphazene Derivative with Hexaxis-(alkylazobenzene) Substitution as Photo-sensitive Trigger. 1563

Shirota, Osamu.

Two New Sesquiterpene Pyridine Alkaloids from *Maytenus chuchuhuasca*. 1891

Shoda, Shin-ichiro.

Direct Conversion of 2-Acetamido-2-deoxysugars to 1,2-Oxazoline Derivatives by Dehydrative Cyclization in Water. 1531

Shokol, Tatyana V.

An Interaction of 2-Thiazoleacetonitriles with *N*-(2-Chloroacetyl)anthranilic Acid Ester. 797

Shoyama, Yukihiro.

A Bioactive Alkaloid from the Flowers of *Trollius chinensis*. 1443

Sielemann, Dirk.

Star-shaped Threefold Dihydropyridine and Xanthene Derivatives. 2615

Silin, Olexiy V.

Synthesis of 5*H*-Pyrazolo[4,3-*c*]quinolines. 1883

Sillanpää, Reijo.

Preparation and Structure of *Diexo*-Oxanorbornane-fused 1,3-Heterocycles. 63

Simón, Luis.

A Xanthone-based Macrocyclic Receptor and Its Possible Applications. 2465

Singh, Sandeep K.

Synthesis and Reactions of *N*-Ethynyl-heterocycles. 1455

Singh, Shiv P.

Structural Revision in Pyrazole Chemistry. 145

Singh, Shiv P.

Synthesis of Heterocyclic Compounds from the Reactions of Dehydroacetic Acid (DHA) and Its Derivatives. 1193

Śliwa, Wanda.

Glycolurils. 419

Śliwa, Wanda.

Rotaxanes Containing Quaternary Azaaromatic Moieties. 2131

Somei, Masanori.

Novel Syntheses of 1-Hydroxy-6- and -5-nitroindole-3-carbaldehydes, and Their Derivatives as Daikon-Phytoalexin Analogs. 1601

Somekawa, Kenichi.

Efficient Photochemical Oxetane Formation from 2-Pyrones and Benzophenones in the Solid State. 1541

Somogyi, László.

Synthesis, Oxidation and Dehydrogenation of Cyclic *N,O*- and *N,S*-Acetals. Part 1. Transformation of *N,S*-Acetals: 3-Acyl-1,3,4-thiadiazolines. 2243

Spaggiari, Alberto.

Synthesis of *N*-Bridgehead Fused Bicyclic β-Lactams through Organometal-mediated Transformations of 1,2-Dialkenylaziridines. 2495

Sriubolmas, Nongluksna.

A New Pterocarpan from *Erythrina fusca*. 879

Stájer, Géza.

Preparation and Structure of *Diexo*-Oxanorbornane-fused 1,3-Heterocycles. 63

Stanovnik, Branko.

Synthesis of 5-Substituted Ethyl 3-Oxo-2*H*-pyrazolo[4,3-*c*]pyridine-7-carboxylates. 609

Su, Chung-Ren.

Eurycomalin A, a New Dimeric Dihydrobenzofuran from *Eurycoma longifolia*. 2123

Su, Jui-Hsin.

Briaexcavatolide W, a New Diterpenoid from *Briareum excavatum*. 895

Sugisaki, Claudia.

New Pyridinium Chiral Ionic Liquids. 2033

Sugiyama, Chitose.

Reaction of [1,4]Benzodioxinopyridazines with Sodium Methoxide and Amines. 591

Sugiyama, Hiroki.

Characterization of a 3,4-Dihydro-1,3,4-triphosphacyclopenta[*a*]indene as an Isomer of a Mes*-substituted 1,3,6-Triphosphafulvene (Mes* = 2,4,6-*t*-$Bu_3C_6H_2$). 2591

Sun, Jung-Hui.

Synthesis of *N*-Butyl Side Chain Hydroxylated Metabolites of Roxifiban, a Platelet Glycoprotein IIb/IIIa Receptor Antagonist. 1585

Sun, Shi.

The Asymmetric Synthesis of Linear Dihydropyranocoumarins for Alzheimer's Disease. 271

Sung, Nack-Do.

Synthesis of Aromatic Ring Fused Pyrrole Derivatives by Palladium-catalyzed Annulation of *o*-Iodoarylamines with Allyl Acetate. 631

Sung, Ping-Jyun.

Briaexcavatolide W, a New Diterpenoid from *Briareum excavatum*. 895

Suspène, Clément.

Synthesis of a New Imidazo[4,5-*b*]pyridin-5-one *via* a Vicarious Nucleophilic Substitution of Hydrogen. 1629

Suter, M.

Stereoselective Synthesis of 1-Substituted 1,2,3,4-Tetrahydro-β-carbolines by Asymmetric Electrophilic α-Amidoalkylation Reactions. 2747

Suzuki, Naoaki.

Enantioselective Hydrogenation of 3,4-Dihydro-β-carbolines Catalyzed by Ir Complexes of Diphosphine. 2097

Suzuki, Takanori.

Synthesis and Characterization of Hexakis(4-pyridylethynyl)benzene and Hexakis(5-pyrimidylethynyl)benzene. 1537

Svete, Jurij.

Synthesis of 5-Substituted Ethyl 3-Oxo-2*H*-pyrazolo[4,3-*c*]pyridine-7-carboxylates. 609

T

Tabaka-Blom, A. Christine.

Synthesis of *N*-Butyl Side Chain Hydroxylated Metabolites of Roxifiban, a Platelet Glycoprotein IIb/IIIa Receptor Antagonist. 1585

Tagashira, Shoji.

Synthesis of 2-Chloro-8-(2-pyridyl)-1-azaazulene and Its Metal Complexes. 2341

Tagawa, Yoshinobu.

Palladium(II)-mediated Nucleophilic Cyanation of 4-Substituted Quinoline 1-Oxide in the Presence of Trimethylsilyl Cyanide and an Oxidant. 2859

Tagawa, Yoshinobu.

Electrophilic Reaction of *N*-Lewis Acid and *N*-Oxide Lewis Acid Complexes of 4-Methylpyridines and Their *N*-Oxides through Base-induced Deprotonation. 2863

Tahara, Kenji.

Some Reactions of 3-Phenyl-8-triphenylphosphoimino-1-azaazulene. 809

Tahara, Satoshi.

Kwakhurin, a Unique Isoflavone with Rejuvenating Activity from "Kwao Keur": Further Characterization by 2D-NMR Spectrometry and Synthesis of Triisopropylkwakhurin.

1375

Takabe, Kunihiko.
Convenient Synthesis of Pulchellalactam, a CD45 Protein Tyrosine Phosphatase Inhibitor from the Marine Fungus *Corollospora pulchella*, and Its Related Compounds. 1013

Takafuji, Makoto.
Dendritic Cyclotriphosphazene Derivative with Hexaxis-(alkylazobenzene) Substitution as Photo-sensitive Trigger. 1563

Takahashi, Hisashi.
Practical Synthesis of DQ-113, a New Quinolone Antibacterial Agent, by Using the Intramolecular Horner-Wadsworth-Emmons Reaction. 699

Takahashi, Ichiro.
Studies of Isoindoles. 12. A Structural Revision of the 1:2 Mannich Type Condensation Reaction Product Formed from *o*-Phthalaldehyde and Substituted Aniline. 1267

Takahashi, Kunio.
A Novel Secondary Metabolite from *Lethariella sernanderi*. 1023

Takahashi, Satoshi.
Direct Conversion of 2-Acetamido-2-deoxysugars to 1,2-Oxazoline Derivatives by Dehydrative Cyclization in Water. 1531

Takahashi, Shunya.
Synthesis of Mycalamide Analogs. 2111

Takahashi, Yoshikazu.
A New Resveratrol Hexamer from *Upuna borneensis*. 129

Takatori, Kazuhiko.
A Novel Secondary Metabolite from *Lethariella sernanderi*. 1023

Takaya, Yoshiaki.
Two Lignan Glycosides from *Vitis thunbergii*. 871

Takayama, Hiromitsu.
Density Functional Theory Study of the Preferred Conformation of Geissoschizine. 663

Takayama, Hiromitsu.
m-Chloroperbenzoic Acid Oxidation of Corynanthe-Type Indole Alkaloid, Mitragynine, Afforded Unusual Dimerization Products. 2597

Takeda, Toshiyuki.
Practical Synthesis of DQ-113, a New Quinolone Antibacterial Agent, by Using the Intramolecular Horner-Wadsworth-Emmons Reaction. 699

Takemura, Makoto.
Practical Synthesis of DQ-113, a New Quinolone Antibacterial Agent, by Using the Intramolecular Horner-Wadsworth-Emmons Reaction. 699

Takemura, Yuko.
Two New Bicoumarins from *Clausena excavata*. 115

Takeya, Koichi.
New Cytotoxic Norditerpene Dilactones from Leaves of *Podocarpus macrophyllus* var. *maki*. 347

Takeya, Koichi.
Quassinoid Xylosides, Javanicosides G and H, from Seeds of *Brucea javanica*. 691

Takeya, Koichi.
Two New Sesquiterpene Pyridine Alkaloids from *Maytenus chuchuhuasca*. 1891

Takizawa, Kayoko.
The Absolute Structures of Dihydroepiheveadride, as Characteristic Antifungal Agent against Filamentous Fungi, and Its Related Compounds from Unidentified Fungus IFM 52672. 2581

Tamura, Chihiro.
(Delphinidin 3-Gentiobiosyl) (Luteorin 7-Glucosyl) Malonate from the Flowers of *Eichhornia crassipes*. 899

Tamura, Mina.
Reaction of 3,5-Dicyanoisoxazoles with Nucleophiles. 1659

Tanada, Mikimasa.
Bipyrrole Derivatives as New DNA-Minor Groove Binders. 29

Tanaka, Akihiro.
A New Synthetic Route to YM087, an Arginine Vasopressin Antagonist. 1113

Tanaka, Hideo.
Reactions of 5-Hydroxymethyl-1*H*-indole-4,7-dione with Enamines for the First Construction of 1*H*,5*H*-Pyrano[3,4-*f*]indole-4,9-dione Derivatives. 1679

Tanaka, Kenta.
Selective Phototransformation of Hydroxy-substituted Aromatic Nitrones into *N*,*N*-Diarylformamide Derivatives Showing a Novel Conformational Isomerism. 241

Tanaka, Koujirou.
Reactions of 5-Hydroxymethyl-1*H*-indole-4,7-dione with Enamines for the First Construction of 1*H*,5*H*-Pyrano[3,4-*f*]indole-4,9-dione Derivatives. 1679

Tanaka, Toru.
Synthesis of CMP-sialic Acid Mimics That Have 5-Fluorouracil for Cytosine and the C-Terminal's Peptide Bond for the Phosphate Group: Targeting Inhibitors of Sialyltransferases. 779

Tanaka, Toshiyuki.
A New Resveratrol Hexamer from *Upuna borneensis*. 129

Tanaka, Toshiyuki.
New Resveratrol Dimer Glucosides and Trimers in Stem and Root of *Welwitschia mirabilis*. 1821

Tanaka, Toshiyuki.
New Neolignan and Phenylpropanoid Glycosides in *Juniperus communis* var. *depressa*. 2573

Tandon, Vibha.
KF-Alumina Immobilized in Ionic Liquids: A Novel Heterogeneous Base for Heterocyclization of Alkylsulfanylphenylamines into 1,4-Benzothiazine. 1057

Tanizawa, Norihiko.
Novel Syntheses of 1-Hydroxy-6- and -5-nitroindole-3-carbaldehydes, and Their Derivatives as Daikon-Phytoalexin Analogs. 1601

Tareen, Rasool Bakhsh.
Iridoid Galactosids and a Benzofuran Type Sesquiterpene from *Buddleja crispa*. 1875

Tateishi, Akiko.
Two New Bicoumarins from the Leaves of *Murraya exotica*. 2837

Tatsuzawa, Fumi.
Acylated Peonidin 3-Rutinoside-5-glucosides from Commercial Petunia Cultivars with Pink Flowers. 509

Teleha, Christopher A.
Synthesis of *N*-Butyl Side Chain Hydroxylated Metabolites of Roxifiban, a Platelet Glycoprotein IIb/IIIa Receptor Antagonist. 1585

Temelkoff, David P.
Rapid Access to Glucopyranosyl-1,2,3-triazoles *via* Cu(I)-Catalyzed Reactions in Water. 2719

Terashima, Kenji.
Two Lignan Glycosides from *Vitis thunbergii*. 871

Teshima, Daisuke.
Palladium(II)-mediated Nucleophilic Cyanation of 4-Substituted Quinoline 1-Oxide in the Presence of Trimethylsilyl Cyanide and an Oxidant. 2859

Teshima, Daisuke.
Electrophilic Reaction of *N*-Lewis Acid and *N*-Oxide Lewis Acid Complexes of 4-Methylpyridines and Their *N*-Oxides through Base-induced Deprotonation. 2863

Teshima, Naoko.
Two New Bicoumarins from the Leaves of *Murraya exotica*. 2837

Thaher, Bassam A. Abu.
A Convenient Synthesis of Some New 1,3,4-Benzothiadiazepin-5-ones. 1153

Thomas, David A.
Synthesis and Photochromic Properties of Methoxy Substituted 2,2-Diaryl-2*H*-naphtho[1,2-*b*]pyrans. 567

Thomas, Steffen.
Preparation and Structure of *Diexo*-Oxanorbornane-fused 1,3-Heterocycles. 63

Tian, Min.
Green Chemistry Approaches to the Synthesis of 5-Arylidenethiobarbituric Acids by a Condensation Reactions between Aromatic Aldehydes and Thiobarbituric Acid: Comparison of Water, Microwave Irradiation, and Grinding. 583

Tillequin, François.
Sarcodifurines A and B, Two New Furoquinolines from *Sarcomelicope follicularis*. 2043

Tinto, Winston F.
Terpenoid Metabolites of the Marine Octocoral *Eunicea laciniata*. 107

Tinto, Winston F.
A New Diterpene of *Leonotis nepetaefolia*. 383

Tohyama, Shigeo.
Synthesis of 5-Methylindole-4,7-quinone through a New Construction of the Functionalized Indole Ring Based on the Allene-mediated Electrocyclic Reaction Involving the Pyrrole [*b*]-Bond. 1765

Toki, Kenjiro.
(Delphinidin 3-Gentiobiosyl) (Luteorin 7-Glucosyl) Malonate from the Flowers of *Eichhornia crassipes*. 899

Toki, Kenjiro.
An Acylated Pelargonidin 3-Sophoroside from the Pale-brownish Red Flowers of *Ipomoea nil*. 1449

Tokuda, Harukuni.
Two New Bicoumarins from *Clausena excavata*. 115

Tokumaru, Mariko.
Two New Bicoumarins from the Leaves of *Murraya exotica*. 2837

Tokunaga, Maiko.
A Study of Structure and Dynamics of Prochiral N-C Axis for Asymmetric Transition Metal Catalysis, with Phosphorous-31 (V) by 3D NMR Spectroscopy Combined with MO Calculation. 1345

Tokunaga, Yuji.
Selective Recognition of Rotaxanes for an Alkali Metal Ion. 2713

Tokutake, Kunihiko.
Chemiluminescent Autoxidation of α-Silyl Carbanions Derived from 9-Silyl-10-methylacridanes. 1667

Tolmachev, Andrey A.
An Interaction of 2-Thiazoleacetonitriles with *N*-(2-Chloroacetyl)anthranilic Acid Ester. 797

Tomioka, Saori.
Novel Syntheses of 1-Hydroxy-6- and -5-nitroindole-3-

carbaldehydes, and Their Derivatives as Daikon-Phytoalexin Analogs. 1601

Torre, Giovanni.

Synthesis of *N*-Bridgehead Fused Bicyclic β-Lactams through Organometal-mediated Transformations of 1,2-Dialkenylaziridines. 2495

Townsend, Leroy B.

Mononuclear Heterocyclic Rearrangement: Synthesis of [5:5] Bicyclic [*c*]-Fused 3-Aminopyrazoles *via* the *N-N* Bond Formation Strategy. 2475

Toya, Yukiko.

Acylated Peonidin 3-Rutinoside-5-glucosides from Commercial Petunia Cultivars with Pink Flowers. 509

Treu, Matthias.

1,3-Dipolar Cycloaddition Reactions to Galanthamine Nitrone: An Entry to 4a,5,9,10-Tetrahydro-6*H*,14a*H*-benzofuro[3a,3,2-*ef*]isoxazolo[3,2-*a*][2]benzazepines. 2217

Troisi, Luigino.

Palladium-catalyzed Cyclocarbonylation of Unsaturated Alcohols and Amines. Chemoselective Synthesis of Heterocycle-substituted γ- and δ-Lactones and Lactams. 1027

Tsai, Tzu-Wei.

Synthesis of Benzofurans from Isovanillin *via* *C*-Propenylation-*O*-vinylation and Ring-closing Metathesis. 1771

Tsuboi, Sadao.

Condensation of 4-Hydroxy-2-thiazolines with 1,2-Phenylenediamine as a Novel Effective Route to Thiazolo[3,4-*a*]-quinoxalines. 1783

Tsugawa, Mayumi.

Two New Bicoumarins from the Leaves of *Murraya exotica*. 2837

Tsuji, Shuichi.

Synthesis of CMP-sialic Acid Mimics That Have 5-Fluorouracil for Cytosine and the C-Terminal's Peptide Bond for the Phosphate Group: Targeting Inhibitors of Sialyltransferases. 779

Tsunoda, Takashi.

A New Synthetic Route to YM087, an Arginine Vasopressin Antagonist. 1113

Tsuru, Toshiaki.

Preparation and Optical Resolution of a New Helical Lactone Carrying the 2,8-Dioxabicyclo[3.3.0]octane Ring System. 137

Tsuruta, Haruki.

Enantioselective Synthesis of (*S*)-3-(4-Thiazolyl)-2-*tert*-butoxycarbonylaminopropionic Acid: A Chiral Building Block for Renin Inhibitor. 2385

Tsutsumi, Shinya.

(Delphinidin 3-Gentiobiosyl) (Luteorin 7-Glucosyl) Malonate from the Flowers of *Eichhornia crassipes*. 899

Tu, Yongqiang.

Two New Lignan Glycosides from *Schisandra rubriflora*. 1437

Tverdokhlebov, Anton V.

An Interaction of 2-Thiazoleacetonitriles with *N*-(2-Chloroacetyl)anthranilic Acid Ester. 797

Tzeng, Cherng-Chyi.

Synthesis and Cytotoxic Evaluation of Certain Tricyclic Benzo[*g*]quinolin-4(1*H*)-one and Benzo[*g*]quinoline-4,9,10-trione Derivatives. 529

U

Ueda, Junichi.

Isolation and Identification of Phototropism-regulating Substances Benzoxazinoids from Maize Coleoptiles. 2707

Usami, Yoshihide.

Gliocladins A - C and Glioperazine ; Cytotoxic Dioxo- or Trioxopiperazine Metabolites from a *Gliocladium* Sp. Separated from a Sea Hare. 1123

V

Vanelle, Patrice.

Synthesis of a New Imidazo[4,5-*b*]pyridin-5-one *via* a Vicarious Nucleophilic Substitution of Hydrogen. 1629

Vivona, Nicolò.

Fluorinated Heterocyclic Compounds. A Photochemical Approach to a Synthesis of Fluorinated Quinazolin-4-ones. 1619

Vivona, Nicolò.

Molecular Rearrangements of 1-Oxa-2-azoles as an Expedient Route to Fluorinated Heterocyclic Compounds. 2627

Volovenko, Yulian M.

An Interaction of 2-Thiazoleacetonitriles with *N*-(2-Chloroacetyl)anthranilic Acid Ester. 797

W

Wan, Jinqiao.

Synthesis and Characterization of Potential Photolabeling Probes for Studying the Antiviral Mechanisms of Eicar. 671

Wan, Li-Feng.
Microwave-assisted One-Pot Synthesis of Trisubstituted Imidazoles on Solid Support. 1613

Wang, Chen.
Palladium-catalyzed Carbonylation of Polychlorinated Pyridines. A Simple Laboratory Approach to Metal Catalyzed Carbonylation Reactions. 411

Wang, Eng-Chi.
Synthesis of Benzofurans from Isovanillin *via C*-Propenylation-*O*-vinylation and Ring-closing Metathesis. 1771

Wang, Feng-Peng.
Three New Lycoctonine-Type C_{19}-Diterpenoid Alkaloids from *Delphinium giraldii*. 123

Wang, Feng-Peng.
Two New C_{19}-Diterpenoid Alkaloids from *Aconitum nagarum* var. *lasiandrum*. 2363

Wang, Guey-Horng.
Briaexcavatolide W, a New Diterpenoid from *Briareum excavatum*. 895

Wang, Ru Feng.
A Bioactive Alkaloid from the Flowers of *Trollius chinensis*. 1443

Wang, Yinghua.
A New Prenylated Flavone from the Leaves of *Glycyrrhiza uralensis* Cultivated in China. 2091

Wang, You-Feng.
Synthesis of Benzofurans from Isovanillin *via C*-Propenylation-*O*-vinylation and Ring-closing Metathesis. 1771

Wanner, Klaus T.
Stereoselective Synthesis of 1-Substituted 1,2,3,4-Tetrahydro-β-carbolines by Asymmetric Electrophilic α-Amidoalkylation Reactions. 2747

Watanabe, Hitoshi.
Acylated Peonidin 3-Rutinoside-5-glucosides from Commercial Petunia Cultivars with Pink Flowers. 509

Watanabe, Toshiko.
Kwakhurin, a Unique Isoflavone with Rejuvenating Activity from "Kwao Keur": Further Characterization by 2D-NMR Spectrometry and Synthesis of Triisopropylkwakhurin. 1375

Weber, Ulrich.
Stereoselective Synthesis of 1-Substituted 1,2,3,4-Tetrahydro-β-carbolines by Asymmetric Electrophilic α-Amidoalkylation Reactions. 2747

Wei, Xiaomei.
A New Diterpene Alkaloid from *Aconitum brunneum* Hand-Mazz. 1181

Wilson, Mary.
Facile Synthesis of Biologically Active Heterocycles by Indium-induced Reactions of Aromatic Nitro Compounds in Aqueous Ethanol. 283

Winter, Andreas.
Star-shaped Threefold Dihydropyridine and Xanthene Derivatives. 2615

Wipf, Peter.
Use of Deoxo-Fluor for Double Cyclization to Bis-thiazolines. Limitations of This Agent for the Synthesis of Oxazolines. 773

Witvrouw, Myriam.
Synthesis of New Potential HIV-1 Integrase Inhibitors. 2727

Wu, Qiongyou.
Synthesis and Characterization of Potential Photolabeling Probes for Studying the Antiviral Mechanisms of Eicar. 671

Wu, Shwu-Li.
Briaexcavatolide W, a New Diterpenoid from *Briareum excavatum*. 895

Wu, Tian-Shung.
Eurycomalin A, a New Dimeric Dihydrobenzofuran from *Eurycoma longifolia*. 2123

Wu, Yang-Chang.
Two Sesquiterpene-Coumarins from the Roots of *Ferula marmarica*. 2101

X

Xia, Chizhong.
A General and Efficient Method for Synthesis of Functionalized Ethylenediamine Derivatives. 2515

Xia, Peng.
New Heterocycles: 4-Methyl-2*H*-pyrano[6,5-*f*]cycloalka[2,1-*b*]2*H*-chromen-2-ones. 1637

Xia, Yi.
Synthesis and Characterization of Potential Photolabeling Probes for Studying the Antiviral Mechanisms of Eicar. 671

Xia, Yi.
New Heterocycles: 4-Methyl-2*H*-pyrano[6,5-*f*]cycloalka[2,1-*b*]2*H*-chromen-2-ones. 1637

Xu, Yu.
One-Pot Synthesis of Tetra-substituted Imidazoles on Silica Gel under Microwave Irradiation. 87

Xu, Yu.
Syntheses of Heterocyclic Compounds under Microwave Irradiation. 903
Xu, Yu.
Microwave-assisted One-Pot Synthesis of Trisubstituted Imidazoles on Solid Support. 1613
Xuárez, Lisbet.
Synthesis of *N*-Allyl- and *N*-Propadienylacridones Using Phase-Transfer Catalysis. 23

Y

Yakushijin, Kenichi.
Regioselective Cleavage of Trisubstituted Epoxy-Linkage Using Lithium Trialkylborohydride Reagents: A New Route to the Key Intermediate of Maxacalcitol. 1335
Yamada, Haruki.
A New Pterocarpan from *Erythrina fusca*. 879
Yamada, Hiroki.
New Synthesis and Biologically Active Molecular Design of Deazapteridine-Steroid Hybrid Compounds. 9
Yamada, Koji.
Novel Syntheses of 1-Hydroxy-6- and -5-nitroindole-3-carbaldehydes, and Their Derivatives as Daikon-Phytoalexin Analogs. 1601
Yamada, Kosumi.
Isolation and Identification of Phototropism-regulating Substances Benzoxazinoids from Maize Coleoptiles. 2707
Yamada, Taisuke.
Dendritic Cyclotriphosphazene Derivative with Hexaxis (alkylazobenzene) Substitution as Photo-sensitive Trigger. 1563
Yamada, Takeshi.
Leptosins O-S, Cytotoxic Metabolites of a Strain of *Leptosphaeria* Sp. Isolated from a Marine Alga. 641
Yamagaki, Naoko.
Leptosins O-S, Cytotoxic Metabolites of a Strain of *Leptosphaeria* Sp. Isolated from a Marine Alga. 641
Yamagata, Kenji.
Palladium(II)-mediated Nucleophilic Cyanation of 4-Substituted Quinoline 1-Oxide in the Presence of Trimethylsilyl Cyanide and an Oxidant. 2859
Yamagata, Kenji.
Electrophilic Reaction of *N*-Lewis Acid and *N*-Oxide Lewis Acid Complexes of 4-Methylpyridines and Their *N*-Oxides through Base-induced Deprotonation. 2863
Yamaguchi, Junko.
Gliocladins A - C and Glioperazine ; Cytotoxic Dioxo- or Trioxopiperazine Metabolites from a *Gliocladium* Sp. Separated from a Sea Hare. 1123
Yamaguchi, Masahiko.
$SnCl_4$-Promoted Ethenylation Reaction of Hydroxylated Heteroarenes. 1839
Yamaguchi, Masaki.
Synthesis of Molecular Tweezers Bearing Two Porphyrins and Its Complexation toward Electron Acceptors. 2005
Yamaguchi, Mitsuhiro.
Facile Methods for Preparation of Thiazolopyridine and Tetrahydrothiazolopyridine Derivatives. 1555
Yamaguchi, Ryoji.
Efficient Photochemical Oxetane Formation from 2-Pyrones and Benzophenones in the Solid State. 1541
Yamaguchi, Seiji.
Palladium(II)-catalyzed Stereocontrolled Cyclization *via* Hemiacetal Intermediates: Total Synthesis of 5-Epi-prelactone C. 1017
Yamamoto, Hiroyuki.
Novel Synthesis, Properties, and Structural Characteristics of 1,6-Dialkylpyrimido[5,4-*e*][n](2,4)pyridinophane-5,7(1*H*, 6*H*)-diones. 319
Yamanaka, Hiroyuki.
A New Method for the Preparation of Nitrogen-containing Heterocycles Using Diphenylsulfonium Triflates. 2813
Yamane, Yoshinobu.
A New Method for the Preparation of Nitrogen-containing Heterocycles Using Diphenylsulfonium Triflates. 2813
Yamano, Akihito.
Studies of Isoindoles. 12. A Structural Revision of the 1:2 Mannich Type Condensation Reaction Product Formed from *o*-Phthalaldehyde and Substituted Aniline. 1267
Yamanouchi, Takako.
Leptosins O-S, Cytotoxic Metabolites of a Strain of *Leptosphaeria* Sp. Isolated from a Marine Alga. 641
Yamashita, Yoshiro.
Synthesis and Properties of Pyrazino[2,3-*g*]quinoxaline Derivatives: Blue and Green Fluorescent Materials with Electron Affinity. 2207
Yamaye, Makoto.
Preparation and Optical Resolution of a New Helical Lactone Carrying the 2,8-Dioxabicyclo[3.3.0]octane Ring System. 137
Yan, Jia-Sheng.
Synthesis of *N*-Butyl Side Chain Hydroxylated Metabolites of Roxifiban, a Platelet Glycoprotein IIb/IIIa Receptor Antagonist. 1585

Yang, Li.
A New Diterpene Alkaloid from *Aconitum brunneum* Hand-Mazz. 1181
Yang, Xiaodong.
Two New Lignan Glycosides from *Schisandra rubriflora*. 1437
Yang, Xiu Wei.
A Bioactive Alkaloid from the Flowers of *Trollius chinensis*. 1443
Yang, Yonghua.
Synthesis and Electrochemical Properties of π-Extended *N*-Arylpyrrolo[3,4-*d*]tetrathiafulvalenes. 1577
Yang, Yu-Liang.
Two Sesquiterpene-Coumarins from the Roots of *Ferula marmarica*. 2101
Yang, Zhengyu.
New Heterocycles: 4-Methyl-2*H*-pyrano[6,5-*f*]cycloalka[2,1-*b*]2*H*-chromen-2-ones. 1637
Yin, Bingzhu.
Synthesis and Electrochemical Properties of π-Extended *N*-Arylpyrrolo[3,4-*d*]tetrathiafulvalenes. 1577
Yoda, Hidemi.
Convenient Synthesis of Pulchellalactam, a CD45 Protein Tyrosine Phosphatase Inhibitor from the Marine Fungus *Corollospora pulchella*, and Its Related Compounds. 1013
Yokoo, Katsuki.
A New Method for Regioselective Synthesis of a Broad-Spectrum Parenteral S-3578-Related Cephalosporin Bearing an Imidazo[4,5-*b*]pyridinium Derivative at C-3'. 1757
Yokoyama, Hajime.
Palladium(II)-catalyzed Stereocontrolled Cyclization *via* Hemiacetal Intermediates: Total Synthesis of 5-Epi-prelactone C. 1017
Yonezawa, Yasuchika.
Useful Synthesis of 2,3,6-Tri- and 2,3,5,6-Tetrasubstituted Pyridine Derivatives from Aspartic Acid. 2735
Yoshida, Takashi.
Characterization of the Oxidation Products of (-)-Epigallocatechin Gallate, a Bioactive Tea Polyphenol, on Incubation in Neutral Solution. 1547
Yoshifuji, Masaaki.
Characterization of a 3,4-Dihydro-1,3,4-triphosphacyclopenta[*a*]indene as an Isomer of a Mes*-substituted 1,3,6-Triphosphafulvene (Mes* = 2,4,6-*t*-$Bu_3C_6H_2$). 2591
Yoshikawa, Masayuki.
Absolute Stereostructures of Acylated Khellactone-Type Coumarins from *Angelica furcijuga*. 2211
Yoshinaga, Tetsutaro.
Preparation and Optical Resolution of a New Helical Lactone Carrying the 2,8-Dioxabicyclo[3.3.0]octane Ring System. 137
Yoshino, Toshiharu.
Facile Methods for Preparation of Thiazolopyridine and Tetrahydrothiazolopyridine Derivatives. 1555
Yoshioka, Sachiko.
Chemiluminescent Autoxidation of α-Silyl Carbanions Derived from 9-Silyl-10-methylacridanes. 1667
Yoshizawa, Hidenori.
A New Method for Regioselective Synthesis of a Broad-Spectrum Parenteral S-3578-Related Cephalosporin Bearing an Imidazo[4,5-*b*]pyridinium Derivative at C-3'. 1757
Yu, Kai-Bei.
Study on Syntheses and Structure of a New Kind of Bisheterocyclic Thiadiazine Derivatives Containing Pyrazolone. 2079
Yuasa, Yoko.
Enantioselective Synthesis of (*S*)-3-(4-Thiazolyl)-2-*tert*-butoxycarbonylaminopropionic Acid: A Chiral Building Block for Renin Inhibitor. 2385
Yuasa, Yoshifumi.
Enantioselective Synthesis of (*S*)-3-(4-Thiazolyl)-2-*tert*-butoxycarbonylaminopropionic Acid: A Chiral Building Block for Renin Inhibitor. 2385
Yum, Eul Kgun.
Synthesis of Aromatic Ring Fused Pyrrole Derivatives by Palladium-catalyzed Annulation of *o*-Iodoarylamines with Allyl Acetate. 631
Yunta, María J. R.
Functionalization of the Ring A in Some Benzo[*g*]pyridazino[1,2-*b*]phthalazine-6,13-dione Derivatives Related to Anthracyclinones. 1299

Z

Zahara, Jalal A.
A Convenient Synthesis of Some New 1,3,4-Benzothiadiazepin-5-ones. 1153
Zani, Mariana.
1-Aryl-3-alkyl-1,4,5,6-tetrahydropyrimidinium Salts. Part 2. Reactions with Nucleophiles. 2557
Zapol'skii, Viktor A.
Chemistry of Polyhalogenated Nitrobutadienes, 1: A New Synthesis of Perfunctionalized 3-Amino-4-nitrothiophenes 1281
Zappalà, Maria.

Synthesis of New Potential HIV-1 Integrase Inhibitors. 2727

Zea, Carlos Damian.

Synthesis of 3-Ferrocenyl-3,3a,4,5-tetrahydro-2*H*-benzo-[*g*]indazoles. 1045

Zhang, Han-Qing.

The Asymmetric Synthesis of Linear Dihydropyranocoumarins for Alzheimer's Disease. 271

Zhang, Hongbin.

Two New Lignan Glycosides from *Schisandra rubriflora*. 1437

Zhang, Qian.

New Heterocycles: 4-Methyl-2*H*-pyrano[6,5-*f*]cycloalka[2,1-*b*]-2*H*-chromen-2-ones. 1637

Zhao, Jingfeng.

Two New Lignan Glycosides from *Schisandra rubriflora*. 1437

Zhao, Yi Bin.

New *O*-Terpenoidal Coumarins from *Clausena excavata*. 2087

Zhao, You-Xing.

A New Tricyclic 6-7-5-Ring Diterpene from Pliocene Fossil *Tsuga dumosa*. 861

Zheng, Qin-Guo.

Organic Reactions in Ionic Liquids: A Simple Highly Regioselective or Regiospecific Substitutions of Benzotriazole. 1077

Zhou, Jiehua.

Synthesis and Characterization of Potential Photolabeling Probes for Studying the Antiviral Mechanisms of Eicar. 671

Zhou, Jun.

A New Tricyclic 6-7-5-Ring Diterpene from Pliocene Fossil *Tsuga dumosa*. 861

Zhou, Xian-Li.

Three New Lycoctonine-Type C_{19}-Diterpenoid Alkaloids from *Delphinium giraldii*. 123

Zolfigol, Mohammad Ali.

A Convenient Method for the Preparation of Some New Derivatives of 1,3,5-*s*-Triazine under Solvent Free Condition. 1897

Zúñiga, Adrián Covarrubias.

Synthesis of 5-Benzoyl-6-trifluoromethyl-1,2-dihydro-3*H*-pyrrolo[1,2-*a*]pyrrole-1-carboxylic Acid. 2071

Subject Index Volume 63, 2004

A

Acetophenone Tosylhydrazone 1175
Acetylcholinesterase Inhibitor 271
Acetylene 1839
N-Acetyl-D-glucosamine 1531
3-Acetyl-4-hydroxy-6-methyl-2*H*-2-oxopyran 1193
Aconitum brunneum 1181
Aconitum nagarum var. *asiandrum* 2363
Acridane 1667
Acridone 529
Acridone Alkylating Agent 23
Acylation 797, 1311, 2537, 2605
Acyl Azide 1645
N-Acyliminium Ion 17, 2747
Addition 1455
Aglycon, Tricyclic 2057
Air Oxidation 1849, 2355
Aldol Reaction 779
Alkali Metal Ion 2713
3-Alkoxycarbonyl-1-naphthol 567
Alkylation 519, 797
Alkylation, Selective 1131
α-Alkylidene-γ-lactone 2349
Alkyne 2719
3-Alkynyl-1-alkylidenecycle 1359
Allenyl Intermediate 1765
Allyl Acetate 631
N-Allylacridone 23
Allylation 1185
Allylic Dehydration 1855
1-Allyl-1,2,3,4-tetrahydro-β-carboline 655
Alumina 1613
Amidine 249, 1659
Amidinium 2051
Amidinium Salt, Cyclic 2557
Amidoalkylation 765, 2747
Amination 2605
Amine 591, 2515
Amino Acid 17, 779, 1673
α-Amino Acid Amide Cyclization 1165
Amino Acid, Unnatural 2379
2-Aminobenzenethiol 2769
Aminocoumarin 1793
3-Amino-2-cyclopenten-1-one 797
Amino Ether 401
Amino-hydroxychromene 1793
7-Aminoindazole 1651
2-Aminopyridine 55
Aminothiazole 259
3-Aminothiophene 2199
o-Aminothiophenol 2623
Androstanolone 9
Angelica furcijuga 2211
Aniline 367
Anionic Cyclization 1009
Annulation 631
Anthocyanin 899
Anthocyanin, Acylated 509
Anthocyanin Pigment 899
Anthracyclinone Analogue 1299
Anti-coccidiosis 9
Antifeedant Activity 389
Antimicrobial Activity 879
Antimitotic 2457
Antimycobacterial Activity 879
Antineoplastic 2355
Anti-tumor Agent 2111
Anti-tumor Promoter 115
Antiviral Agent 2111
Apoptosis 129
Aromatic Nitrone 241
Aromatic Nucleophilic Substitution 699
S-Arylhydrazone Adduct 1153
5-Arylidenethiobarbituric Acid 583
6-Arylimino-6*H*-indolo[2,1-*b*]quinazolin-12-one 791
Aspartic Acid 2735
Asymmetrical Dihydroxylation 271
Asymmetric Reduction 1017

Asymmetric Synthesis 655
Autoxidation 1667
AVP 1113
Azaanthraquinone 819
Azaazulene 809, 2341
Azacycloalkane 2813
Azadiene 2287
Azaproline 2379
Azaspiracid 539
Aza-Wittig Reaction 809
Azidoimidazole Nucleoside 671
Aziridine 2495
Azobenzene 2869
Azolyldiene 2287

B

Benzamidine 1093
Benzimidazole 2727, 2769
Benzodiazepine 1409
Benzodioxoledione 1
Benzofuran 1875
Benzofuran, Substituted 1771
Benzoheterocycle 903
Benzoimidazole 1659
Benzoin 87, 1613
Benzonitrile Oxide 1651
2*H*-Benzo[*b*]-1,4-oxazine 249
1-Benzopyran-4-one 2875
1-Benzopyran-4-one, 3-Hetaryl- 2875
Benzoquinoline 529
2-Benzotelluropyrylium Salt 309
1,3,4-Benzothiadiazepin-5-one 1153
Benzothiazine 1057
Benzothiazole 2769
Benzo[*b*]thiophen-2-one 1813
Benzothiopyrano[2,3-*b*]indole 2785
Benzotriazole 1077, 1455
1,4-Benzoxapin-3-one 1093
2*H*-1,3-Benzoxazine 2319
Benzyne 1067, 2309, 2785
Biphenyl Sulfonamide 1093
Bisaryl Diselenide 1067
Bisdioxa[2.2]orthocyclophane 2005
Bisthiazoline 773
Bis(trifluoromethylsulfonyl) Imide 2033
Blue Light-induced Inhibitor 2707
Boron Trifluoride 2863
Briarane-type Diterpenoid 895
Briareum excavatum 895
α-Bromoacetophenone 2805
2-Bromoalkene Synthesis 2349
2-Bromo-2-nitropropane 41
Brucea javanica 691
Buddlejaceae 1875
Buddleja crispa 1875
Butenolide 383

C

C_{19}-Diterpenoid Alkaloid 123, 2363
Ca^{2+} Antagonist 271
CAN 2243
Carbanion 1009
Carbazole 2393
Carbene 1409
Carbodiimide 95
Carbodiimide, Water-soluble 1531
Carbon Nucleophile 95
Carbonylation 2495
Carbonyl Insertion 2349
Carbostannylation 1839
Catalytic Asymmetric Hydrogenation 2097
Catechin 1547
Celastraceae 1891
Chelating Agent 1057
Cheletropic Addition 2203
Chemiluminescence 759, 1667
Chirality Transfer 1017
Chiral Recognition 2465
α-Chloroacetone 2805
m-Chloroperbenzoic Acid 2597

Chlorophenylpyruvate 1783
Chuchuhuanine E-VI 1891
Chuchuhuanine E-VII 1891
3-Cinnamoyl-4-hydroxy-6-methyl-2*H*-2-oxopyran 1193
Citraconic Anhydride 2623
Citraconimide 1013
Cladimarin 115
Claisen Condensation 2111
Claisen Rearrangement 1771
Condensation 87, 1165, 1613
Conformational Isomerism 241
Coordination Bond 2713
Cotton Effect 2123
Coumarin 1083, 2087
^{31}P-^{1}H Coupling Constant 1345
Cribrostatin 6 2355
Cross-Coupling 1673
Crown Compound 333
Crown Ether 2713
Crownophanedicarboxylic Acid 333
Cubitane Diterpene 107
Cu(I) Catalysis 2719
Cupressaceae 2573
Curtius Rearrangement 1645
Cyano(thiazol-4-yl)acetate, Ethyl 2319
Cyanuric Chloride 1897
Cyclic Voltammetry 1577
Cyclization 283, 367, 609, 1281, 1757, 1813, 2199, 2805
Cyclization, 5-*exo*-*trig* 1903
Cyclization, 6-*endo* 681
Cyclization, 6-*endo*-*trig* 1903
Cycloaddition 707, 809, 1455, 1685, 2217, 2287, 2719, 2785
Cycloaddition, Intramolecular 1423, 1645
Cycloalk-2-enone 319
Cyclocondensation 41, 1153, 2019
Cyclodehydration 773
Cyclohexadienecarboxylate 1
Cyclopenta[*a*]indene 2591
Cyclopentenone 827
2-Cyclopenten-1-one 1
Cyclopropane 699
Cyclotriphosphazene 1563

D

DDQ 2243
Dehydroacetic Acid 1193
α-Dehydroamino Acid 1273, 2735
Dehydrogenation 2243
Dehydrosilylation 2859
Delphinium giraldii 123
Dendrimer 505
Deoxoepiheveadride 2581
Deoxo-Fluor 773
Deoxybenzoin 1375
Deoxygenation 2859
Deprotection 1757
α-Deprotonation 2863
Desulfurization 885
DFT 663
1,6-Dialkylpyrimido[5,4-*e*][n](2,4)pyridinophane-5,7(1*H*,6*H*)-dione (n=11, 9, 6) 319
Diamagnetic Effect 1267
Diarylbutyrolactone 1437
N,*N*-Diarylformamide 241
E/*Z*-Diastereomerism 1311
Diazatricycle 1045
Diazepine 145
Diazotization 671
Dibenzoate, CD Spectrum 389
Dibenzobicyclo[3.2.1]octadiene Ring 129
Dibenzothiadiazepine Dioxide 2457
1,4-Dicarbonyl Ketone 367
Dicyanoisoxazole 1659
Diels-Alder Reaction 1299, 2785, 2845
Dihedral Angle 1345
Dihydrobenzofuran 2123
3,4-Dihydro-2*H*-benzo[1,4]thiazine 2309
Dihydroepiheveadride 2581
2,3-Dihydrofuran 1573
Dihydrofuroquinoline 2043
1,3-Dihydroindole-2-thione 2785
4,5-Dihydroisoxazole 1585

5,6-Dihydro-4*H*-[1,3]oxazine 2495
Dihydropyridine 2615
3,4-Dihydroquinazoline 95
2,3-Dihydro-4(1*H*)-quinazolinone 2019
2,5-Dihydrothiophene 1,1-Dioxide 2203
Diimide 1175
1,3-Diketone 145
Dimerization 2597
3-Dimethylaminopropenoate 609
7,8-Dimethylbenzo[*g*]quinoxalinedione 819
Dimethyldioxirane 17
2,8-Dioxabicyclo[3.3.0]octane 137
1,4-Dioxinopyridazine 591
Dioxopiperazine 1123
2,6-Dipicolinic Acid 411
1,3-Dipolar Cycloaddition 1423, 1645, 1651
6,5'-Diprenylluteolin 2091
Dipterocarpaceae 129
Dithiazinanylethanol 2269
[1,3]Dithiolane 1281
DNA/RNA Nucleobase Guest Molecule 2827
Dolabellane Diterpene 107
Domino Reaction 2615
Double Sensor 759
Duplex DNA 29
Duskish-2 Mutant 1449

E

EBV-EA 115
EICAR 671
Eichhornia crassipes 899
Electrocyclic Reaction 1765
Electrocyclization 2393
π-Electron Acceptor 2005
Electron Affinity 2207
Electron Demand 2287
Electron Donor 1577
14π-Electron System, Extended 2207
Electron Transfer 2371
Electrophilic Addition 1299
Elimination 851, 1093
Enamide 1855, 1679
Enamine-alkylation 319
Enaminic Reactivity 851
Enaminonitrile 1793
Enthiolate 1281
endo-Enyne, Acyclic 827
exo-Enyne, Acyclic 827
Enyne, *Exo*-cyclic 1359
Enzymatic Resolution 17
Enzyme 779
Epigallocatechin Gallate 1547
Epipolysulfanyldioxopiperazine 641
Epoxy-linkage Cleavage, Regioselective 1335
Erythrina fusca 879
Ethanone, 1,2-(Hetero)aryl-substituted 2727
Ethenylation 1839
Etherification 297
Etherocyclization 1573
2-Ethyl-1-hexanol 411
Ethynylpyridine 1537
Ethynylpyrimidine 1537
Eunicea laciniata 107
Eurycomalactone Type Quassinoid 2123
Eurycoma longifolia 2123

F

Factor Xa Inhibitor 1555
Ferrocene 1045
Flavone 899
Flavone Disubstituted Malonate 899
Flavonoid 359, 2091
Flower Color 899
Flower Color Pigment 1449
Fluorescence 1083
Fluorescent Ligand 29
Fluorine-containing Heterocycle 707
Fluoro Heterocycle 1619
Foetidin Acetate 2101
Foetidone 2101

Formyl Migration 2557
Fossil 861
Francheline 2363
Furan 1573, 2393
Furanone 1027

G

Galanthamine 2217
Geissoschizine 663
Geometry Optimization 2605
Giraldine D 123
Giraldine E 123
Giraldine F 123
Glucoside 1429
Glucosylation 1531
Glucosyl Donor 1531
Glycoside 871
Glycosyl Azide 2719
Glycyrrhiza uralensis 2091
Gorganian 895
Gould-Jacobs Reaction 1883
Grignard Reagent 95
Hexahydropyrrolo[2,3-*b*]indole 1131
Hexaoxacyclononane 2231
HIV-1 IN Inhibitor 2727
Hoechst 33258 29
Homophthalic Anhydride 2013
Host-Guest Chemistry 2827
Hydrazide 1273
Hydrazine 145
Hydrazone 707
Hydrogenation, Enantioselective 2385
Hydrogen Bond 663
Hydrogen Bonding 2615
Hydrogen Phosphate, Cyclic 2797
2-Hydroxyacetophenone, ω-Hetaryl- 2875
Hydroxycarbonylation 2797
3-Hydroxy-10-(3-hydroxy-3-methylbutyl)-9-methoxypterocarpan 879
1-Hydroxyindole 1601
Hydroxyl Deprotection 1585
Hydroxyl Protection 1585
7-Hydroxy-4-methylcoumarin 1637
1-Hydroxy-5-nitroindole-3-carbaldehyde 1601
1-Hydroxy-6-nitroindole-3-carbaldehyde 1601
3-Hydroxypropenone, 1,3-(Hetero)aryl-substituted 2727
Hydroxyquinoline 1793
Hyuganin 2211
Hyuganoside 2211

H

Hair Colourant 249
α-Halo Ketone 1783
Harmaline 2097
Harmicine 655
Helicity 137
Heteroarene, Hydroxylated 1839
Heterocyclic Rearrangement, Mononuclear 2475
Heterocyclization 1017
Heterocyclization, Regioselective 259
Heteromacrocycle 2827
Heveadride 2581
Hexaethynylbenzene 1537
Hexafluorophosphate 2033

I

IBDA 2243
Imidate 1659
Imidazobenzazepine 1113
Imidazole 1897
Imidazole, Tetra-substituted 87
Imidazole, Tri-substituted 1613
Imidazolidin-4-one, Substituted 1165
Imidazoline 1659
Imidazo[1,2-*a*]pyrazin-3(7*H*)-one 759
Imidazo[4,5-*c*]pyrazole 2475
Imidazo[1,2-*a*]pyridine 55

Imidazo[4,5-*b*]pyridine 1629
Imidazoyl Azide 671
Imine 2013
Iminium 765
Iminium Salt 2851
Iminoisoindoline 1267
Iminophosphorane 809
Indazole 373, 1045
Indenoquinoxalin-11-one 2225
Indigofera hetrantha 359
Indium 41
Indole 1679, 2597
Indole Alkaloid 655, 2845
Indole, 3-Substituted 2371
Indole Synthesis 1765
Indoline 1601
Indoloquinolizidine 765
3-Indolylacetonitrile 1131
Indolyl Radical Anion 2371
Indomethacin 2071
Intercalator 529
Intramolecular Transfer 2355
Iodocyclization 1185, 1573
Ionic Liquid 1057, 1077
Ipomoea nil 1449
Iridoid Galactoside 1875
Iron Complex 2393
Isatin 1083
Isatin-3-imine 791
Isatoic Anhydride 791, 1417
Isoindolo[5,6-*g*]quinoxalinetetraone 819
Isolariciresinol 871
Isomerization 2869
Isoquinoline 75, 1855
Isoquinolinium Salt 1849
cis-Isoquinolonic Acid 2013
Isotellurochromene 309
Isothiomünchnone 2851
Isovanillin 1771
Isoxazole 2217

J

Japanese Morning Glory 1449
Javanicoside G 691
Javanicoside H 691
Juglandaceae 1429
Juglanoside 1429
Juglans mandshurica 1429
Julia Olefination 785
Juniperus communis var. *depressa* 2573

K

$KAl(SO_4)_2{\cdot}12H_2O$ 2013
1,3-Keto Ester 1573
β-Keto Ester 1651
Ketorolac 2071
$KF\text{-}Al_2O_3$ 791, 1057
Khellactone-Type Coumarin 2211
Knoevenagel Condensation 1629
Kwakhurin 1375

L

Labdane Diterpene 383
Lactam, Bicyclic 5
Lactam, Conjugated 1013
β-Lactam, Fused 2495
Lactone 2087
δ-Lactone 1017
Lactone, Chiral 137
Lactone, Helical 137
Lamiaceae 383
Lasianine 2363
Leguminosae 359, 2091
Leonotis nepetaefolia 383
Leptosin 641
Leptosphaeria species 641
Lignan 871

Lipoxygenase Inhibition 359
Lithiation 1093, 1813, 2863

M

Macrocycle 1057, 2051
Macrocyclic Receptor 2465
Macrolactonization 785
Macrolide 2057
Mannich Reaction 2615
Marine Natural Product 1123
Marine Polyether 885
Martinelline 1685
Maxacalcitol 1335
Maytenus chuchuhuasca 1891
Meliaceae Mahogany 389
2-Mercaptobenzoic Acid 1153
Metal Carbonyl Complex Catalysis 373
Metal Complex 2341
Metalloreceptor 2827
4-Methoxybenzylamino Derivative 2457
Methoxylation 765
3-Metyl-6-benzyluracil 319
Methylenemalonate Group 1629
5-Methylindole-4,7-quinone 1765
Mexicanolide 389
Michael Addition 1679
Microcarpalide 785
Microfilament Disrupting Agent 785
Microwave-assisted Reaction 1165
Microwave Irradiation 297, 583, 903, 2225
Microwave Synthesis 2727
Mimosamycin 1849
Minor Groove Binder 29
Molden Salt 2033
Molecular Machine 2131
Molecular Recognition 2713
Molecular Tweezer 2005
Montmorillonite K10 2225
Morpholine 1897
Murradimerin A 2837
Murramarin B 2837
Murrangatin 115
Mycalamide 2111
Mycalamide Analog 2111
Mytilus edulis 539

N

NaClO 1409
2*H*-Naphtho[1,2-*b*]pyran 567
$Na_2S_2O_4$ Reduction 1393
Neighboring Participation, Nitrogen 5
Neolignan Glucoside 2573
Nitrilimine 1423
Nitroaromatic 373
Nitrogen Heterocycle 1537
Nitrogen Heterocycle, Unsaturated 2813
Nitrogen Nucleophile 2813
4-Nitroimidazole 1629
Nitrone 2217, 2287
Nitroquinoline 2329
Nonadride 2581
Non-alternant Bidentate Ligand 2341
Novozyme 435 17
Nucleobase 1673
Nucleophile 2557
Nucleophilic Aromatic Substitution 297
Nucleophilic Substitution 591, 1629
Nucleophilic Substitution, *Ipso*- 1829
Nucleoside 1673

O

Oligosaccharide 1531
One-Pot Reaction 1417
Opioid 865
Optical Resolution 137
Organic Conductor 1577
Organic Peroxide, Cyclic 2231

Organocopper Reagent 309
Organopalladium Complex 2827
Organotin Reagent 1903
Orthoester 1417, 2837
1,2,4-Oxadiazole 1619
Oxadiazole, Fluorinated 2627
Oxanorbornane 63
1,4-Oxazine 75
Oxazole 773, 2845
Oxazoline 773
Oxetane 1541
Oxidation 819, 1547, 2329, 2379, 2597
Oxidation Mechanism 2623
Oxime 373
Oxoindole 367
10-Oxomorphinan 865
4-Oxothiazolidine 851
Oxygen Heterocycle 1185

P

Paal-Knorr Reaction 367
Palladium 631
Palladium(II) Acetate 2859
Palladium-cyclocarbonylation 1027
Palladium on Carbon 411
Papilionaceae 879
(+)-Parryin, 15,16-*O*-Isopropylidene- 861
Pauson-Khand Reaction 827, 1359
Pelargonidin 3-Sophoroside 1449
Pentachloropyridine 411
Peonidin 3-Caffeoylglucosyl-*p*-coumaroylrutinoside-5-glucoside 509
Peonidin 3-Glucosyl-*p*-coumaroylrutinoside-5-glucoside 509
Peterson Reaction 1667
Phase-Transfer Catalysis 23, 297
pH Effect 759
Phenacyl Halide 1175
1,2-Phenylenediamine 1783
o-Phenylenediamine 2769
Phenylpropanoid Glycoside 2573
Phosphaalkene 2591
Phosphorus-containing Heterocycle 2591
Phosphorylation 2797
Photochemistry 1619, 2627
Photochromism 567
Photocycloaddition 1541
Photo-induced *trans*-to-*cis* Isomerization 1563
Photo-induced Oxidation Reaction 1393
Photolabeling 671
Photorearrangement 241
Photoresponsive 2869
Photo-sensitive Trigger 1563
Phototropic Stimulation 2707
Phototropism-regulating Substance 2707
α-Phthalimidostyrene 2813
Phytoalexin 1601
Pinaceae 861
Pinacol-like Reaction 1855
Pink Petunias 509
Piperazic Acid 2379
Piperidine 1897
Piperidinone 1027
PMB Protecting Group 2537
Podocarpus macrophyllus 347
Polonovski Reaction 1849
Polycycle 63
Polyether 539
Polyphenol 1547
Polysaccharide 1531
Porphyrin 505, 2005
Potassium Permanganate 865
N-Propanedienylacridone 23
Proparglic Alcohol 1637
Propenamide 1009
C-Propenylation-*O*-Vinylation 1771
Proton Shift 2813
Pseudorotaxane 2131
^{31}PT1 1345
Pulchellalactam 1013
Purine 1673
Pyran 1679
Pyranone 1027

Pyrazine 2207
Pyrazole 145, 1883, 1897
Pyrazoline 2379
Pyrazolo-1,5-benzodiazepine 1651
Pyrazolone 1311, 2079, 2537
Pyrazolo[3,4-*c*]pyrazole 2475
1*H*-Pyrazolopyridazine, 3-Substituted 1143
Pyrazolo[4,3-*c*]pyridine 609
1*H*-Pyrazolo[4,3-*e*][1,2,4]triazine 1829
Pyrazolo[3,4-*d*][1,2,3]triazole 2475
1*H*-Pyrazolo[4,3-*e*]-1,2,4-triazolo[4,3-*b*][1,2,4]triazine 1829
Pyridazine 707
Pyridazine, Condensed 591
Pyridazinone 75
Pyridazinopyrazolotriazine 1143
Pyridine 2845
Pyridine Skeleton 2735
Pyridinium 2033
Pyridoquinoxalinedione 819
Pyridoquinoxalinone 1409
α-Pyridyl Alcohol 2863
Pyrimidine 2051, 2523
2-Pyrone 1541
Pyrrole 29, 1685
Pyrrole, Fused 631
Pyrrolidine 699
Pyrrolidinone 1027
Pyrrolinone 1009
Pyrrolo[2,3-*c*]pyrazole 2475
Pyrrolo[1,2-*a*]quinazoline 797

Q

Quassinoid Xyloside 691
Quaternization 1757, 2605
2-Quinazolinepropanamide 797
Quinazolin-4-one 1619, 2627
Quinoline 1685, 1883
Quinolinium Salt 2329
2(1*H*)-Quinolinone 2329
Quinone 1679

R

Radical Cyclization 1903
Rakanmakilactone G 347
Rakanmakilactone G-7β-*O*-β-D-apiofuranoside 347
Rakanmakilactone H 347
Rakanmakilactone I 347
Rakanmakilactone J 347
Reactive Rotamer Effect 1359
Rearrangement 283, 809
Reduction 401
Reduction Potential 1393
Reduction, Regioselective 1013
Reductive Carbonylation 373
Reductive Cyclization 2393
Renin Inhibitor 2385
Resveratrol Dimmer Glucoside 1821
Resveratrol Oligomer 129
Resveratrol Trimer 1821
Retro Diels-Alder Reaction 63
Retro-Pinacol Reaction 1855
RGB Fluorophore 2207
Ring Cleavage 591
Ring-closing Metathesis 655, 1771, 2495
Ring Closure 2309
Ring Contraction 1409
Ring Current Effect 63
Ring-opening Cross-metathesis 5
Ring-opening, Regioselective 5
Rotaxane 2131, 2713
Roxifiban 1585
Ru-BINAP 2385
Rubrifloside 1437
Rutaceae 115, 2043, 2087, 2837
Ruthenium Catalyst 5

S

Sargassum tortile 641
Schisandraceae 1437
Sea Hare 1123
L-Selectride 1335
Selenazadine 1067
Selenazine 1067
Selenium Compound, Chiral 681
Self-assembled Organogel 1563
Sernanderin 1023
Sesquiterpene Pyridine Alkaloid 1891
Sharpless Asymmetric Dihydroxylation 785
Shellfish Poison 539, 885
Shuttling 2131
Silica Gel 1613
Silicon-directed Reaction 2199
α-Silyl Carbanion 1667
Simaroubaceae 691, 2123
S_NAR Reaction, Intramolecular 2457
$SnCl_4$ 1839
Solanaceae 509
$SOCl_2$ 2623
Solvent Effect 851
Solvent Effect Substituent 241
Solvent-free Synthesis 1165
γ-Spiroiminolactone 2225
Stereoelectronic Control 2557
Steric Protection 2591
Steric Strain 505
Steroidal Deazapteridine 9
Steroid Galactoside 107
Steroid-sidechain Modification 1335
Styryl-type Enyne 827
Substituent Effect 1273, 2231
Sugar Nucleotide 779
Sulfinylquinoline 2329
Sulfur Dioxide 2203
Superoxide Anion 759
Swietenia mhahogani 389

T

Tabernaemontana 845
Tautomerism 55, 2537, 2851
Tea 1547
Testosterone 9
2,3,4,5-Tetrachloropyridine 411
Tetrafluoroborate 2033
2,3,4,5-Tetrahydro-2*H*-benzo[*b*][1,4]thiazocine 2309
2,3,4,5-Tetrahydrobenzo[*b*][1,4]thiazepine 2309
Tetrahydro-β-carboline 2747
Tetrahydroharman 2097
Tetrahydroharmine 2097
Tetrahydropyran, Tetrasubstituted 1017
Tetrahydrothiazolopyridine 1555
Tetralone 1045
Tetraoxacyclohexane 2231
Tetrapyrrole 505
Tetrathiafuluvalene 1577
Tetrazolamine 2605
Tetronic Acid 519
THF Coenzyme Model 2515
Thiaazadiene 2805
Thiadiazine 2079
Thiadiazole 2243
1,2,5-Thiadiazole 2207
Thiadiazoline 2243
Thiazole 1083, 1783
1,3-Thiazole 2805
Thiazoline 1783
Thiazolopyridine 1555
Thiazolo[5,4-*c*]pyridine 2319
(*Z*)-3-(4-Thiazolyl)-2-benzoylaminoprop-2-enoic Acid 2385
Thioether 885
α-Thiomethylsilane 2199
Thiostrepton-type Antibiotic 2735
Thiotetronic Acid 519
Three-Component Synthesis 2225
TNF-α-production, Inhibitor of 2319
1-Tosyl-3,4-dimethylimidazolium Iodide 2515
Tosylhydrazide 1175
N-Tosyloxazolidine 2269
Triazepine 145

1,2,3-Triazole 1175, 2719
1,3,4-Triazole 1273
Triazole, Fluorinated 2627
Tri(2-ethanol)triazinane 2269
Triisopropylkwakhurin 1375
Trioxopiperazine 1123
Triphenylcarbenium Tetrafluoroborate 309
Trispiro-ring 539, 885
Trolline 1443
Trollius chinensis 1443
Tsuga dumosa 861
Tulipa gesneriana 2349
Tuliparin B 2349

U

Usneaceae 1023

V

Vinylallenyl Sulfone 2203
Vinylallenyl Sulfoxide 2203
Vinylic Substitution 1281
Vitaceae 871
Vitamin D_3 Derivative 1335
Vitis thunbergii 871

W

Welwitschia mirabilis 1821
Welwitschiaceae 1821

X

Xanthene 2615
Xanthone 2465
Xanthyletin Analogue 271

Y

Ynamine 1455
Ynamine, Heterocyclic 1455

Z

Zn-Phthalocyanine 2869
Zn^{2+}-Selective Ionophore 333
Zomepirac 2071
Zwitter Ion 663
Zwitterionic Amino Acid 2465